

# **Natural Gas Monthly**

## **November 1997**

**Energy Information Administration**  
Office of Oil and Gas  
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*Electric Power Monthly*, updated on the 1st of the month

*Monthly Energy Review*, updated the last week of the month

*Short Term Energy Outlook*, updated 60 days after the end of the quarter

## Preface

The *Natural Gas Monthly (NGM)* is prepared in the Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of Joan E. Heinkel.

General questions and comments regarding the *NGM* may be referred to Ann M. Ducca (202) 586-6137. Specific technical questions may be referred to the appropriate persons listed in Appendix E.

The *NGM* highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported. From time to time, the *NGM* features articles designed to assist readers in using and interpreting natural gas information.

The data in this publication are collected on surveys conducted by the EIA to fulfill its responsibilities for gathering and reporting energy data. Some of the data are collected under the authority of the Federal Energy Regulatory Commission (FERC), an independent commission within the DOE, which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the *NGM* is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

## Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association	IOGCC	Interstate Oil and Gas Compact Commission
Bbl	Barrels	LNG	Liquefied Natural Gas
BLS	Bureau of Labor Statistics, U.S. Department of Labor	Mcf	Thousand Cubic Feet
Bcf	Billion Cubic Feet	MMBtu	Million British Thermal Units
BOM	Bureau of Mines, U.S. Department of the Interior	MMcf	Million Cubic Feet
Btu	British Thermal Unit	MMS	United States Minerals Management Service, U.S. Department of the Interior
DOE	U.S. Department of Energy	NGL	Natural Gas Liquids
DOI	U.S. Department of the Interior	OCS	Outer Continental Shelf
EIA	Energy Information Administration, U.S. Department of Energy	STIFS	Short-Term Integrated Forecasting System
FERC	Federal Energy Regulatory Commission	STEO	Short Term Energy Outlook
		Tcf	Trillion Cubic Feet

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# Highlights

## Overview

This issue of the *Natural Gas Monthly* presents the most recent estimates of natural gas data from the Energy Information Administration. Estimates extend through November for many data series, and through August for most natural gas prices.

Highlights of the most recent data estimates are:

- Preliminary estimates of dry natural gas production and total consumption available through November 1997 indicate that both series are on track to end the year at levels close to those of 1996. Cumulative dry production is one-half percent higher than in 1996 and consumption is one-half percent lower.
- Natural gas production is estimated to be 52.6 billion cubic feet per day in November 1997, the highest rate since March 1997.
- After falling 8 percent in July 1997, the national average wellhead price rose 10 percent in August 1997, reaching an estimated \$2.21 per thousand cubic feet.
- Milder weather in November 1997 compared to November 1996 has resulted in significantly lower levels of residential consumption of natural gas and net storage withdrawals than a year ago. The November 1997 estimates of residential consumption and net withdrawals are 9 and 20 percent lower, respectively, than in November 1996.

## Supply

Cumulative dry natural gas production in 1997 is slightly above the level of 1996 (Figure HI1). The most recent monthly estimate of dry production is 1,578 billion cubic feet, or 52.6 billion cubic feet per day for November 1997 (Table 1). This is the highest daily rate seen since March

1997 and is almost 3 percent above the daily production rate in November 1996. Cumulatively for January through November 1997, dry production is 17,301 billion cubic feet, one-half percent higher than for the same period of 1996.

Production is supplemented by natural gas supplies from imports and withdrawals from storage in order to satisfy total consumption, estimated to be 1,870 billion cubic feet in November 1997. Net imports of natural gas are estimated to be 241 billion cubic feet in November 1997, 1 percent higher than a year ago (Table 2).

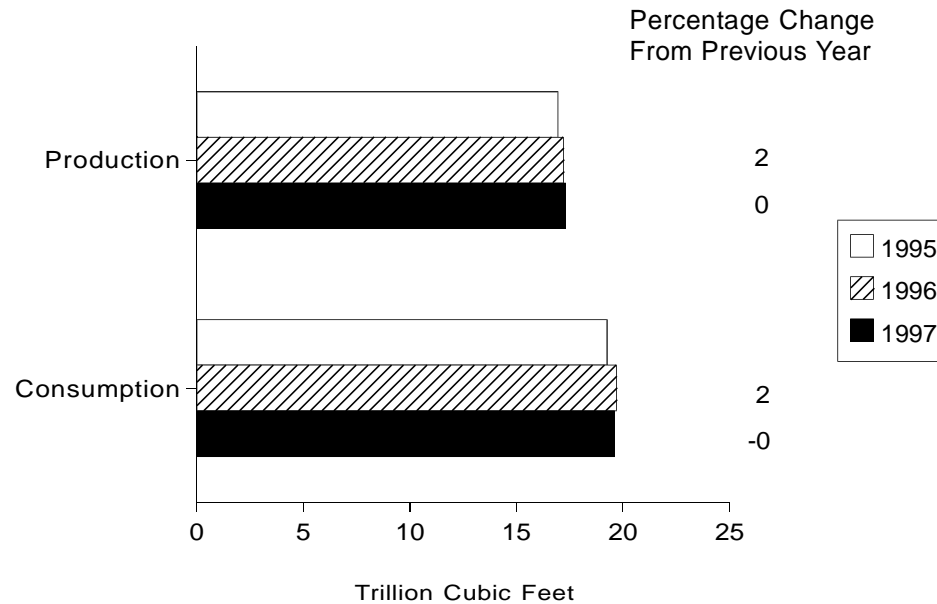
Net storage withdrawals for November 1997 are estimated to be 210 billion cubic feet (Table 9). This is 20 percent lower than net withdrawals during November 1996 when many regions of the country were hit by cold weather. These net withdrawals leave an estimated 2,657 billion cubic feet of working gas in underground storage at the end of November 1997. When the 1997-98 heating season started, working gas at the end of October 1997 was estimated to be 2 percent above the level of last year. Estimated net withdrawals for November 1997 leave working gas at a level 4 percent above that of a year ago (Figure HI2).

## End-Use Consumption

End-use consumption of natural gas for January through November 1997 is estimated to be only one-half percent below that of the same period in 1996. End-use consumption had reached an all-time high of 20.0 trillion cubic feet for the year in 1996.<sup>1</sup> Through November 1997, end-use consumption is estimated to be 17.8 trillion cubic feet (Table 3). Cumulatively, both commercial and industrial consumption are nearly equal to their levels in 1996, while residential consumption is 6 percent lower and consumption by electric utilities is 5 percent higher than in 1996 (Figure HI3).

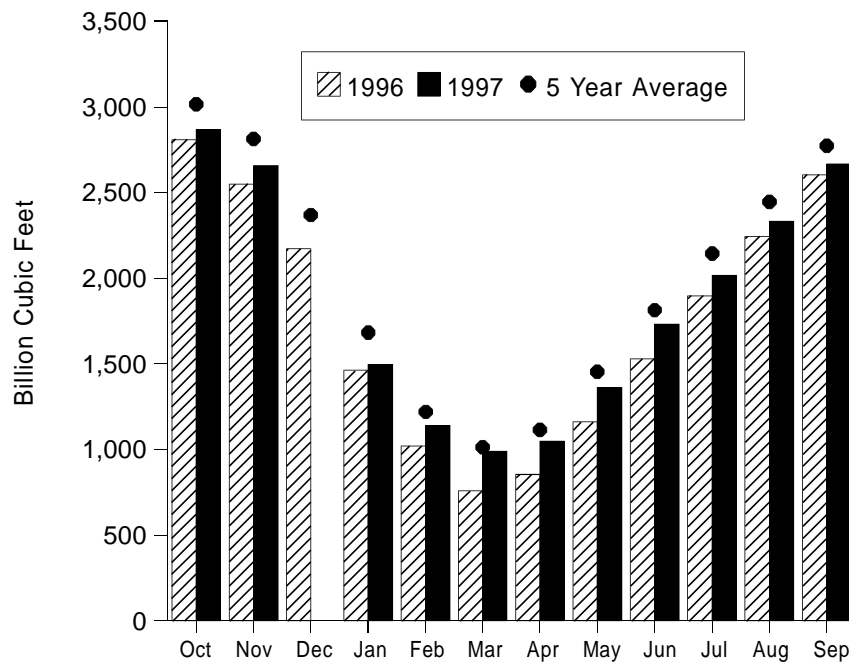
<sup>1</sup>The annual consumption data series, by end-use sector, begins in 1930. The previous high was 19.9 trillion cubic feet in 1972.

**Figure HI1. Natural Gas Production and Consumption, January-November, 1995-1997**



Source: Table 2.

**Figure HI2. Working Gas in Underground Storage in the United States, 1995-1997**



Note: The 5-year average is calculated using the latest available monthly data. For example, the December average is calculated from December storage levels for 1992 to 1996 while the January average is calculated from January levels for 1993 to 1997. Data are reported as of the end of the month, thus October data represent the beginning of the heating season.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and Short-Term Integrated Forecasting System.



Residential and commercial consumption of natural gas are estimated to be 457 and 286 billion cubic feet, respectively, in November 1997. These levels are 83 and 55 percent higher, respectively, than consumption in October 1997, but each is less than the increase that occurred at the beginning of the 1996 heating season. In 1996, residential consumption more than doubled from October to November and commercial consumption increased by 73 percent, as unusually cold weather swept through much of the Nation. Heating degree days were 18 percent higher than normal, on average, in November 1996, and some regions of the country saw heating degree days 25 percent higher than normal.<sup>2</sup> Estimated residential consumption in November 1997 is 9 percent below that of November 1996 and commercial consumption is 3 percent lower.

Industrial consumption of natural gas in November 1997 is estimated to be 775 billion cubic feet, 1 percent higher than in November 1996. Cumulatively, through November, industrial consumption in 1997, which includes consumption by industrial cogenerators, is 0.4 percent higher than during the same period of 1996.

The most recent estimate of natural gas consumption by electric utilities is 390 billion cubic feet in August 1997. This is 6 percent higher than in August 1996. Estimated consumption for July 1997 of 427 billion cubic feet was 19 percent above the level for July 1996.

These increases in electric utility consumption of natural gas may be related to coal delivery problems on the Union Pacific Railroad in Texas. Electric utilities may have switched from coal to natural gas, but the full impact of this situation on natural gas consumption is not yet discernable from the data. Texas alone accounts for approximately one-third of U.S. natural gas consumption by electric utilities, so a major shift in fuel choice from coal to natural gas by Texas utilities would affect natural gas consumption at the national level. However, many Texas utilities have been able to continue to use coal during this period by drawing down their coal stocks. Electric utilities also have the option of switching to fuel oil rather than natural gas.

## Prices

The national average natural gas wellhead price rose by 10 percent from July 1997 to August 1997, reaching an estimated \$2.21 per thousand cubic feet (Table 4). The national average city gate price declined by 9 percent during the same period, to an estimated \$3.24 per thousand cubic feet in August 1997. Cumulatively for the year, both price series are above their levels in 1996 (Figure HI4). The cumulative average wellhead price is estimated to be \$2.28 per thousand cubic feet, 11 percent higher than for the same period last year, and the cumulative average city gate price is \$3.54 per thousand cubic feet, 10 percent higher than in 1996.

The pattern of higher wellhead prices in 1997 is reflected in the higher average prices paid for natural gas by most consumers in 1997 (electric utilities being the exception). Cumulatively, for January through August 1997, residential and commercial prices are estimated to be 10 and 8 percent higher, respectively, than for the same period in 1996. The most recent monthly price estimates, for August 1997, are \$8.66 per thousand cubic feet for residential consumers and \$5.48 for commercial users.<sup>3</sup>

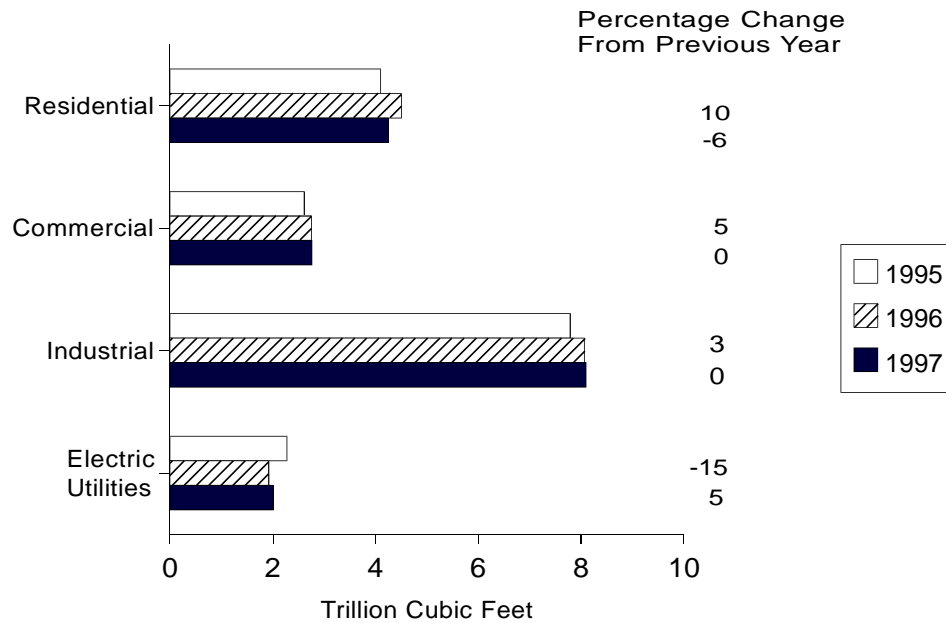
Cumulative average onsystem industrial prices are also higher than last year, by nearly 4 percent. The most recent estimate of the price industrial users pay for natural gas is \$2.96 per thousand cubic feet in August 1997. Even though prices have increased on average during 1997, the increases are far less than those that occurred in 1996. By August 1996, the cumulative average price paid by industrial users was running 29 percent ahead of the 1995 level.

The cumulative average price of natural gas paid by electric utilities, for January through July 1997, is estimated to be 4 percent lower than for the same period in 1996. The most recent price estimate for electric utilities is \$2.44 per thousand cubic feet in July 1997. The general pattern of natural gas prices in this sector in 1997 is in contrast to that seen in 1996. As in the industrial sector, electric utilities had seen a large increase in natural gas prices in 1996. The average price for January through July in 1996 was 35 percent higher than that in 1995.

<sup>2</sup>Heating degree days are gas home customer weighted. See Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0130(96/12) (Washington, DC, December 1997), Table 25.

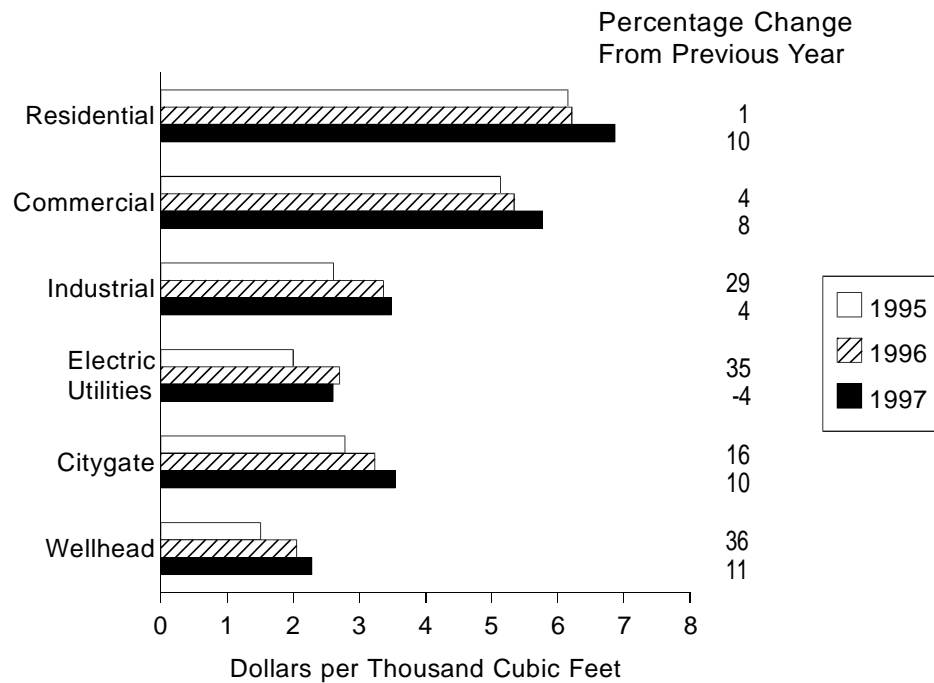
<sup>3</sup>End-use prices in the residential, commercial, and industrial sectors are for onsystem gas sales only. While monthly onsystem sales are nearly 100 percent of residential deliveries, in 1997 they have been from 54 to 73 percent of commercial deliveries and only 13 to 19 percent of industrial deliveries (Table 4).

**Figure HI3. Natural Gas Delivered to Consumers, January-November, 1995-1997**



Note: The reporting of electric utility deliveries is 3 months behind the reporting of other deliveries.  
Source: Table 3.

**Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-August 1995-1997**



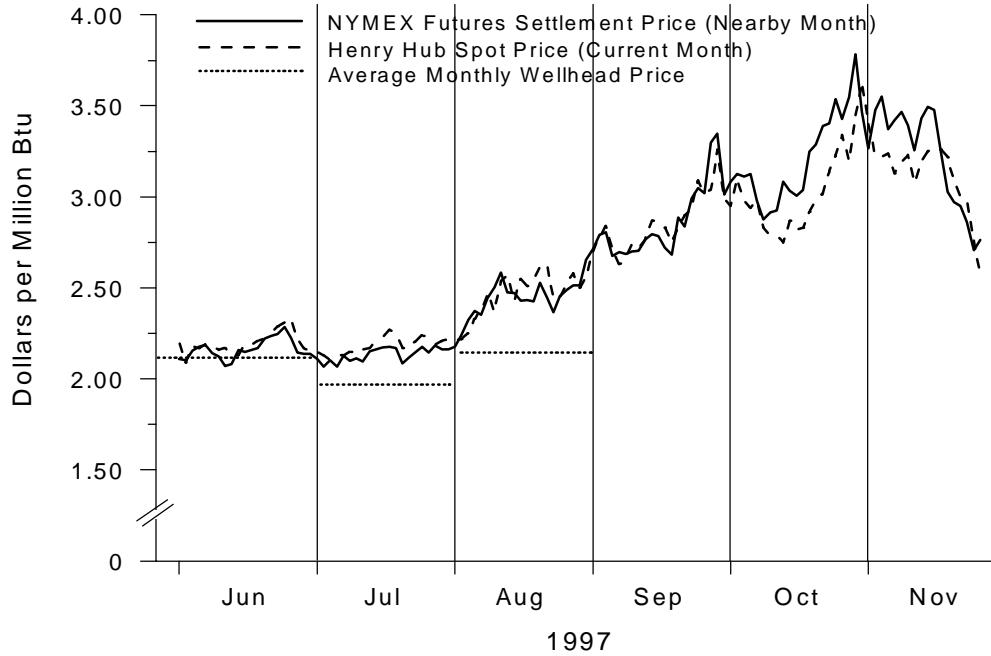
Note: Commercial and industrial average prices reflect onsystem sales only. The reporting of electric utility prices is 1 month behind the reporting of other prices..  
Source: Table 4.

The natural gas futures price at the Henry Hub was above \$3.00 per million Btu for much of October 1997 into mid November (Figure HI5). The average Henry Hub spot price was also above \$3.00 from mid October through mid November. For much of this period, the futures price exceeded the spot price by \$0.20 to \$0.30 per million Btu, demonstrating some concern in the market

for future deliveries of natural gas. However, during the 2 weeks beginning November 11, 1997 both price series have plunged. This is, in part, a response to reports of adequate levels of storage at the beginning of the heating season and predictions by the National Weather Service of warmer-than-normal temperatures in most regions east of the Mississippi River for the next 1 to 3 months.<sup>4</sup>

<sup>4</sup>[http://nic.fb4.noaa.gov:80/predictions/multi\\_season/13\\_seasonal\\_outlooks/2\\_week\\_outlook/450LL01.jpg](http://nic.fb4.noaa.gov:80/predictions/multi_season/13_seasonal_outlooks/2_week_outlook/450LL01.jpg).

**Figure HI5. Futures and Spot Prices at the Henry Hub and Average Wellhead Price**



Note: The futures price is for the contract that is to terminate trading next on the futures market. The spot price is the midpoint of the high and low daily prices at the Henry Hub.

Sources: **Futures Prices:** Commodity Futures Trading Commission, Division of Economic Analysis. **Spot Prices:** Pasha Publications, Inc., *Gas Daily*. **Wellhead Prices:** Table 4.

**Table 1. Summary of Natural Gas Production in the United States, 1991-1997**  
(Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed <sup>a</sup>	Vented and Flared	Marketed Production (Wet)	Extraction Loss <sup>b</sup>	Dry Gas Production <sup>c</sup>
<b>1991 Total</b> .....	21,750	2,772	276	170	18,532	835	17,698
<b>1992 Total</b> .....	22,132	2,973	280	168	18,712	872	17,840
<b>1993 Total</b> .....	22,726	3,103	414	227	18,982	886	18,095
<b>1994 Total</b> .....	23,581	3,231	412	228	19,710	889	18,821
<b>1995</b>							
January .....	2,043	311	34	21	1,677	78	1,599
February .....	1,822	276	30	20	1,495	70	1,426
March .....	2,026	314	32	20	1,660	77	1,582
April .....	1,945	287	32	21	1,604	75	1,530
May .....	1,997	291	33	24	1,649	77	1,572
June .....	1,910	264	31	28	1,587	74	1,513
July .....	1,960	264	31	26	1,639	76	1,563
August .....	1,965	284	30	22	1,628	76	1,552
September .....	1,914	276	33	25	1,581	74	1,507
October .....	1,988	319	34	25	1,610	75	1,535
November .....	2,045	331	33	24	1,657	77	1,580
December .....	2,128	348	35	26	1,719	80	1,639
<b>Total</b> .....	23,744	3,565	388	284	19,506	908	18,599
<b>1996</b>							
January .....	2,052	310	44	26	1,673	81	1,591
February .....	1,941	294	41	24	1,580	77	1,504
March .....	2,054	313	45	23	1,674	81	1,592
April .....	2,003	289	42	22	1,650	80	1,570
May .....	2,025	281	42	23	1,679	81	1,598
June .....	1,962	276	36	16	1,634	79	1,555
July .....	2,008	271	42	24	1,672	81	1,591
August .....	2,021	281	45	24	1,671	81	1,590
September .....	1,958	283	44	22	1,609	78	1,531
October .....	2,011	306	44	23	1,638	79	1,558
November .....	1,984	299	47	23	1,615	78	1,537
December .....	2,032	307	46	23	1,656	80	1,576
<b>Total</b> .....	24,052	3,510	518	272	19,751	958	18,793
<b>1997</b>							
January .....	<sup>E</sup> 2,082	<sup>E</sup> 327	41	<sup>E</sup> 21	<sup>E</sup> 1,693	79	1,614
February .....	<sup>E</sup> 1,905	<sup>E</sup> 301	38	<sup>E</sup> 19	<sup>E</sup> 1,548	72	1,476
March .....	<sup>E</sup> 2,086	<sup>E</sup> 321	34	<sup>E</sup> 22	<sup>E</sup> 1,708	80	1,629
April .....	<sup>E</sup> 1,974	<sup>E</sup> 296	33	<sup>E</sup> 21	<sup>E</sup> 1,625	76	1,549
May .....	<sup>E</sup> 2,055	<sup>E</sup> 313	<sup>E</sup> 33	<sup>E</sup> 21	<sup>E</sup> 1,688	79	1,609
June .....	<sup>RE</sup> 1,962	<sup>E</sup> 294	31	<sup>E</sup> 20	<sup>RE</sup> 1,616	75	<sup>R</sup> 1,541
July .....	<sup>RE</sup> 2,002	<sup>RE</sup> 295	<sup>R</sup> 34	<sup>E</sup> 21	<sup>RE</sup> 1,653	<sup>R</sup> 77	<sup>R</sup> 1,576
August .....	<sup>RE</sup> 2,033	<sup>RE</sup> 305	<sup>E</sup> 33	<sup>E</sup> 21	<sup>RE</sup> 1,674	<sup>E</sup> 78	<sup>RE</sup> 1,596
September .....	<sup>E</sup> 1,965	<sup>E</sup> 293	<sup>E</sup> 32	<sup>E</sup> 21	<sup>E</sup> 1,620	<sup>E</sup> 75	<sup>E</sup> 1,545
<b>October(STIFS)</b> .....	NA	NA	NA	NA	<sup>E</sup> 1,666	<sup>E</sup> 77	<sup>E</sup> 1,589
<b>November(STIFS)</b> .....	NA	NA	NA	NA	<sup>E</sup> 1,658	<sup>E</sup> 80	<sup>E</sup> 1,578
<b>1997 YTD</b> .....	NA	NA	NA	NA	18,149	<sup>E</sup> 848	<sup>E</sup> 17,301
<b>1996 YTD</b> .....	22,019	3,203	472	249	18,095	878	17,217
<b>1995 YTD</b> .....	21,616	3,217	354	257	17,787	828	16,960

<sup>a</sup> See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

<sup>b</sup> Extraction loss is only collected on an annual basis. Annually it is between 4 and 5 percent of marketed production. Monthly extraction loss is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

<sup>c</sup> Equal to marketed production (wet) minus extraction loss.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

NA = Not Available.

Notes: Data for 1991 through 1995 are final. All other data are preliminary unless otherwise indicated and contain estimates for selected States (see Table 7). Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1991-1994: Energy Information Administration (EIA), *Natural Gas Annual 1995*. January 1996 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," STIFS, and EIA estimates. See Appendix A, Explanatory Notes 1, 3, and 6, for discussion of computation, estimating procedures, and revision policy.

**Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1991-1997**  
(Billion Cubic Feet)

Year and Month	Dry Gas Production	Supplemental Gaseous Fuels <sup>a</sup>	Net Imports	Net Storage Withdrawals <sup>b</sup>	Balancing Item <sup>c</sup>	Consumption <sup>d</sup>
<b>1991 Total</b> .....	17,698	113	1,644	80	-500	19,035
<b>1992 Total</b> .....	17,840	118	1,921	173	-508	19,544
<b>1993 Total</b> .....	18,095	119	2,210	-36	-110	20,279
<b>1994 Total</b> .....	18,821	111	2,462	-286	-400	20,708
<b>1995</b>						
January .....	1,599	12	240	613	-60	2,403
February .....	1,426	10	223	531	17	2,207
March .....	1,582	10	236	228	42	2,098
April .....	1,530	7	220	-51	74	1,780
May .....	1,572	8	216	-343	115	1,567
June .....	1,513	8	202	-380	52	1,395
July .....	1,563	8	208	-313	30	1,497
August .....	1,552	8	223	-212	-24	1,548
September .....	1,507	7	216	-321	-17	1,393
October .....	1,535	9	224	-210	-72	1,486
November .....	1,580	10	224	278	-206	1,886
December .....	1,639	12	256	595	-181	2,321
<b>Total</b> .....	18,599	110	2,687	415	-230	21,581
<b>1996</b>						
January .....	1,591	12	249	723	-2	2,574
February .....	1,504	11	221	462	138	2,335
March .....	1,592	11	226	333	46	2,209
April .....	1,570	9	227	-119	139	1,826
May .....	1,598	6	244	-339	67	1,576
June .....	1,555	8	214	-388	65	1,454
July .....	1,591	8	222	-382	-3	1,436
August .....	1,590	8	221	-358	4	1,465
September .....	1,531	8	227	-379	12	1,399
October .....	1,558	9	236	-210	-62	1,531
November .....	1,537	10	238	272	-161	1,896
December .....	1,576	10	259	387	35	2,266
<b>Total</b> .....	18,793	109	2,784	2	279	21,967
<b>1997</b>						
January .....	1,614	12	<sup>E</sup> 264	683	-55	2,519
February .....	1,476	11	<sup>E</sup> 231	358	176	2,252
March .....	1,629	10	<sup>E</sup> 243	156	51	2,089
April .....	1,549	9	<sup>E</sup> 221	-59	65	1,786
May .....	1,609	9	<sup>E</sup> 229	-322	67	1,594
June .....	<sup>R</sup> 1,541	7	<sup>E</sup> 226	-366	<sup>R</sup> 22	<sup>R</sup> 1,430
July .....	<sup>R</sup> 1,576	8	<sup>RE</sup> 222	-274	<sup>R</sup> 1	<sup>R</sup> 1,533
August .....	<sup>RE</sup> 1,596	<sup>E</sup> 9	<sup>RE</sup> 221	-323	<sup>R</sup> 11	<sup>R</sup> 1,514
September .....	<sup>E</sup> 1,545	<sup>RE</sup> 7	<sup>RE</sup> 201	<sup>R</sup> 330	<sup>RE</sup> 8	<sup>E</sup> 1,432
<b>October(STIFS)</b> .....	<sup>E</sup> 1,589	<sup>RE</sup> 5	<sup>RE</sup> 227	<sup>RE</sup> 200	<sup>RE</sup> 34	<sup>RE</sup> 1,587
<b>November(STIFS)</b> .....	<sup>E</sup> 1,578	<sup>E</sup> 11	<sup>E</sup> 241	<sup>E</sup> 210	<sup>E</sup> 170	<sup>E</sup> 1,870
<b>1997 YTD</b> .....	<sup>E</sup> 17,301	<sup>E</sup> 100	<sup>E</sup> 2,527	<sup>E</sup> 466	<sup>E</sup> 143	<sup>E</sup> 19,605
<b>1996 YTD</b> .....	17,217	99	2,525	-385	244	19,701
<b>1995 YTD</b> .....	16,960	98	2,431	-180	-49	19,259

<sup>a</sup> Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility where they are gathered each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Inc.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio, which varies between .0026 and .0037, is applied to the monthly sum of these three elements. The Dakota Gasification Inc., monthly value is added to the result to produce the monthly supplemental fuels estimate.

<sup>b</sup> Monthly and annual data for 1991 through 1995 include underground storage and liquefied natural gas storage. Data for January 1996 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.

<sup>c</sup> Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 9, for full discussion.

<sup>d</sup> Consists of pipeline fuel use, lease and plant fuel use, and deliveries to consuming sectors as shown in Table 3.

<sup>R</sup> = Revised Data.

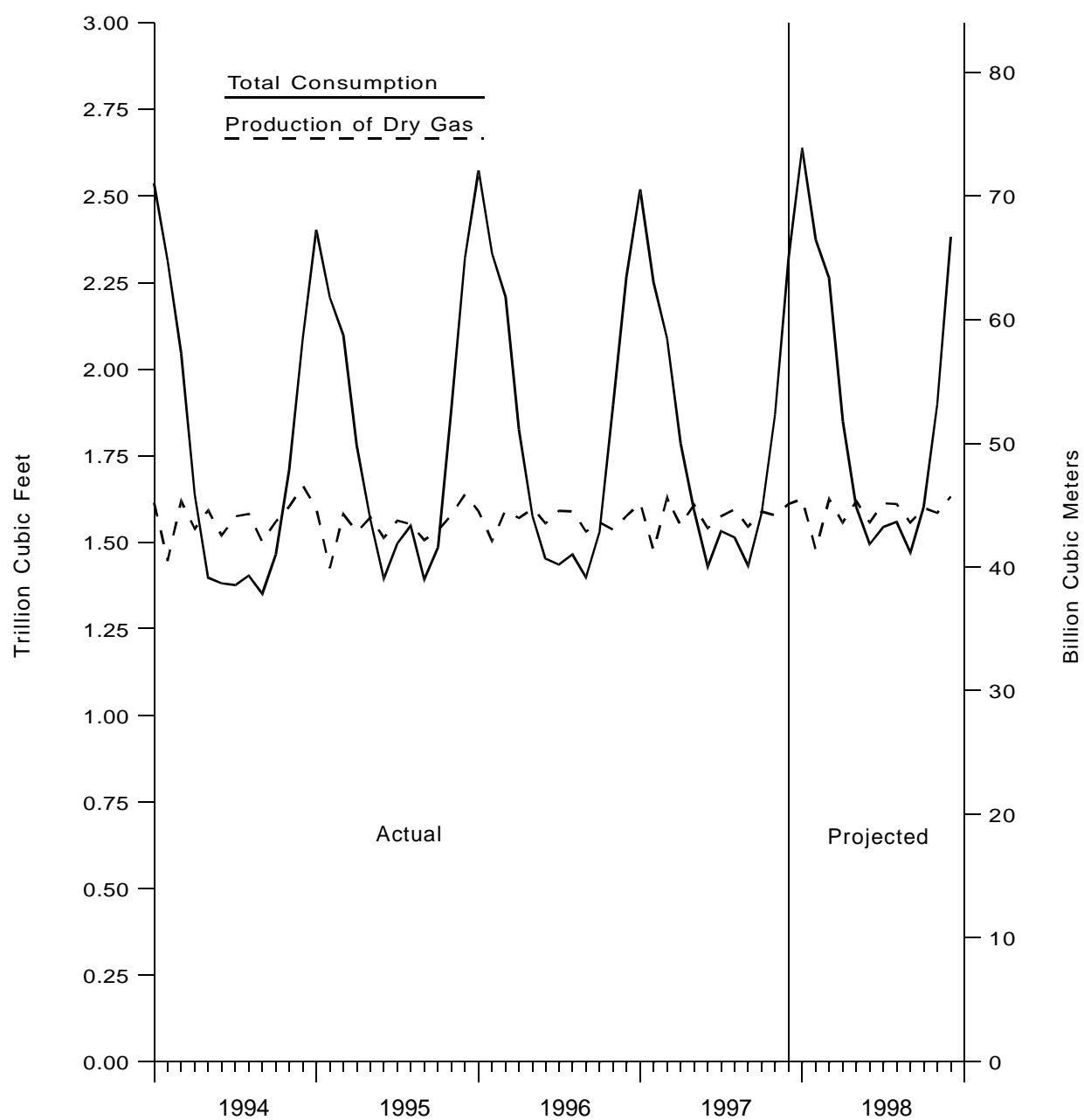
<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

Notes: Data for 1991 through 1995 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1991-1994: Energy Information Administration (EIA), *Natural Gas Annual 1995*, 1994-1995: EIA: Form EIA-627, "Annual Quantity and Value of Natural Gas Report" (1995 data only), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-191, "Underground Natural Gas Storage Report," Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," EIA computations and *Natural Gas Annual 1995*. January 1996 through current month: EIA, Form EIA-895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-191, EIA computations and estimates, Short-Term Integrated Forecasting System (STIFS) computations, and Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. See Appendix A for discussion of computation and estimation procedures and revision policies.

**Figure 1. Production and Consumption of Natural Gas in the United States, 1994-1998**



Sources: 1994 through the current month: Table 2. Projected data: Energy Information Administration, *Short-Term Energy Outlook* (October 1996).

**Table 3. Natural Gas Consumption in the United States, 1991-1997**  
(Billion Cubic Feet)

Year and Month	Lease and Plant Fuel <sup>a</sup>	Pipeline Fuel <sup>b</sup>	Delivered to Consumers					Total Consumption
			Residential	Commercial	Industrial	Electric Utilities	Total	
<b>1991 Total</b> .....	1,129	601	4,556	<sup>c</sup> 2,729	7,231	2,789	17,305	19,035
<b>1992 Total</b> .....	1,171	588	4,690	<sup>c</sup> 2,803	7,527	2,766	17,786	19,544
<b>1993 Total</b> .....	1,172	624	4,956	<sup>c</sup> 2,863	7,981	2,682	18,483	20,279
<b>1994 Total</b> .....	1,124	685	4,848	<sup>c</sup> 2,897	8,167	2,987	18,899	20,708
<b>1995</b>								
January .....	105	79	816	427	777	199	2,218	2,403
February .....	94	73	754	411	707	168	2,040	2,207
March .....	104	69	600	342	738	245	1,926	2,098
April .....	100	58	419	254	720	229	1,622	1,780
May .....	103	50	260	184	711	258	1,414	1,567
June .....	99	45	159	133	663	297	1,252	1,395
July .....	101	48	131	133	677	407	1,347	1,497
August .....	101	50	114	130	684	468	1,397	1,548
September .....	99	45	134	130	670	316	1,250	1,393
October .....	102	48	216	171	709	240	1,336	1,486
November .....	105	61	489	297	736	198	1,720	1,886
December .....	109	76	758	420	786	172	2,136	2,321
<b>Total</b> .....	1,220	700	4,850	<sup>c</sup> 3,034	8,580	3,197	19,660	21,581
<b>1996</b>								
January .....	106	85	934	480	800	168	2,382	2,574
February .....	101	77	831	443	747	137	2,158	2,335
March .....	106	72	705	387	781	156	2,030	2,209
April .....	104	59	474	284	736	170	1,663	1,826
May .....	106	50	271	183	701	264	1,420	1,576
June .....	102	46	162	133	710	299	1,305	1,454
July .....	105	46	124	126	677	358	1,285	1,436
August .....	105	47	118	123	704	367	1,312	1,465
September .....	102	45	138	124	706	285	1,253	1,399
October .....	104	49	243	171	737	226	1,378	1,531
November .....	103	62	503	295	764	170	1,732	1,896
December .....	105	74	738	409	807	132	2,086	2,266
<b>Total</b> .....	1,250	711	5,241	<sup>c</sup> 3,161	8,870	2,732	20,006	21,967
<b>1997</b>								
January .....	106	82	907	479	806	139	2,331	2,519
February .....	97	73	765	427	747	143	2,082	2,252
March .....	107	68	604	359	763	189	1,915	2,089
April .....	102	58	434	268	732	193	1,626	1,786
May .....	106	52	286	207	713	231	1,436	1,594
June .....	101	46	160	147	680	295	1,283	<sup>R</sup> 1,430
July .....	<sup>R</sup> 103	50	131	<sup>R</sup> 132	<sup>R</sup> 691	427	<sup>R</sup> 1,380	<sup>R</sup> 1,533
August .....	<sup>R</sup> 105	<sup>R</sup> 49	<sup>R</sup> 119	<sup>R</sup> 134	<sup>R</sup> 716	<sup>R</sup> 390	<sup>R</sup> 1,360	<sup>R</sup> 1,514
<b>September(STIFS)</b> .....	<sup>E</sup> 104	<sup>E</sup> 51	<sup>E</sup> 133	<sup>E</sup> 137	<sup>E</sup> 707	NA	<sup>E</sup> 1,277	<sup>E</sup> 1,432
<b>October(STIFS)</b> .....	104	<sup>E</sup> 53	<sup>RE</sup> 250	<sup>E</sup> 184	<sup>E</sup> 765	NA	<sup>RE</sup> 1,430	<sup>RE</sup> 1,587
<b>November(STIFS)</b> .....	<sup>E</sup> 103	<sup>E</sup> 63	<sup>E</sup> 457	<sup>E</sup> 286	<sup>E</sup> 775	NA	<sup>E</sup> 1,704	<sup>E</sup> 1,870
<b>1997 YTD<sup>d</sup></b> .....	<sup>E</sup> 1,138	<sup>E</sup> 644	4,245	2,759	8,095	2,007	17,824	<sup>E</sup> 19,605
<b>1996 YTD</b> .....	1,145	637	4,504	2,749	8,064	1,919	17,916	19,701
<b>1995 YTD</b> .....	1,111	624	4,092	2,611	7,793	2,270	17,521	19,259

<sup>a</sup> Plant fuel data are only collected on an annual basis and monthly lease fuel data are only collected annually. Lease and plant fuel estimates have been between 6 and 7 percent of marketed production annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

<sup>b</sup> Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption (excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the next twelve months.

<sup>c</sup> Vehicle fuel deliveries, in billion cubic feet, were 0.4 in 1991, 0.5 in 1992, 1.0 in 1993, 1.7 in 1994, 2.7 in 1995 and 2.9 in 1996.

<sup>d</sup> Year-to-date volume represents months for which volume information is available in the current year.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

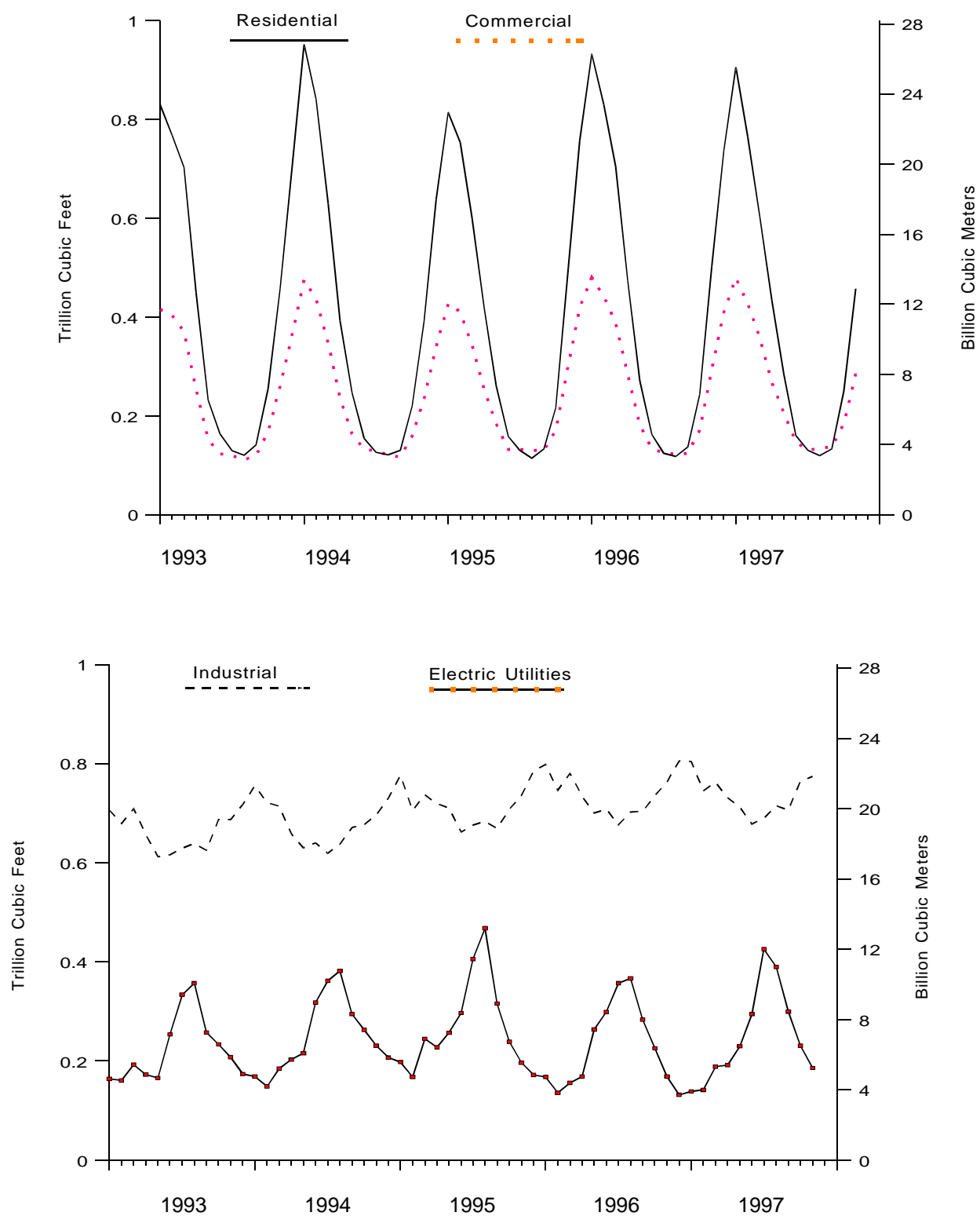
NA = Not Available.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent three months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1991-1996: Energy Information Administration (EIA): Form EIA-627, "Annual Quantity and Value of Natural Gas Report," (thru 1994), Form EIA-895 "Monthly Quantity of Natural Gas Report," (1995 forward), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-759, "Monthly Power Plant Report," EIA computations, and *Natural Gas Annual 1996*. January 1997 through the current month: EIA: Form 895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-759, and STIFS computations. See Appendix A, Explanatory Note 5, for computation procedures and revision policy.



Figure 2. Natural Gas Deliveries to Consumers in the United States, 1993-1997



Sources: *Natural Gas Annual*, Form EIA-857, and Form EIA-759.

**Table 4. Selected National Average Natural Gas Prices, 1991-1997**  
(Dollars per Thousand Cubic Feet)

Year and Month	Wellhead Price <sup>a</sup>	City Gate Price	Delivered to Consumers					
			Residential Price	Commercial		Industrial		Electric Utilities Price
				Price	% of Total <sup>b</sup>	Price	% of Total <sup>b</sup>	
<b>1991 Annual Average</b> .....	1.64	2.90	5.82	4.81	85.1	2.69	32.7	2.18
<b>1992 Annual Average</b> .....	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36
<b>1993 Annual Average</b> .....	2.04	3.21	6.16	5.22	83.9	3.07	29.7	2.61
<b>1994 Annual Average</b> .....	1.85	3.07	6.41	5.44	79.3	3.05	25.5	2.28
<b>1995</b>								
January .....	1.62	2.79	5.85	5.23	81.6	2.95	27.3	2.13
February .....	1.48	2.71	5.76	5.14	81.7	2.85	27.4	2.00
March .....	1.47	2.74	5.84	5.12	81.2	2.74	26.5	1.92
April .....	1.52	2.72	6.06	5.08	77.2	2.57	25.4	1.97
May .....	1.55	2.80	6.54	5.04	71.8	2.54	23.6	2.06
June .....	1.58	2.89	7.49	5.16	71.4	2.44	24.5	2.06
July .....	1.43	2.89	7.82	5.03	67.3	2.34	22.2	1.90
August .....	1.43	2.87	8.13	4.99	66.6	2.26	21.8	1.84
September .....	1.52	2.89	7.73	4.98	67.9	2.42	22.0	1.95
October .....	1.54	2.83	6.62	4.82	69.7	2.44	22.5	2.09
November .....	1.61	2.67	5.61	4.77	75.6	2.68	24.7	2.22
December .....	1.84	2.83	5.54	5.00	79.2	3.07	25.0	2.58
<b>Annual Average</b> .....	1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02
<b>1996</b>								
January .....	2.05	3.14	5.64	5.29	83.4	3.61	23.1	2.87
February .....	1.89	3.16	5.82	5.25	83.8	3.61	23.6	3.07
March .....	1.95	3.17	5.93	5.36	81.7	3.52	23.3	2.73
April .....	2.08	3.22	6.27	5.34	79.3	3.42	21.4	2.68
May .....	2.01	3.18	6.84	5.40	73.9	3.14	19.6	2.52
June .....	2.08	3.41	7.83	5.43	69.3	3.13	17.6	2.59
July .....	2.25	3.49	8.64	5.46	67.3	3.17	19.1	2.69
August .....	2.10	3.46	8.73	5.56	65.9	3.05	18.1	2.57
September .....	1.85	3.05	7.99	5.46	66.9	2.77	17.6	2.24
October .....	1.94	2.94	7.05	5.33	68.8	2.89	18.1	2.37
November .....	2.50	3.46	6.37	5.40	76.1	3.57	19.0	3.04
December .....	3.26	4.18	6.47	5.78	78.4	4.20	20.7	3.98
<b>Annual Average</b> .....	2.17	3.34	6.34	5.40	77.6	3.42	20.2	2.69
<b>1997</b>								
January .....	<sup>E</sup> 3.66	4.27	6.72	6.09	72.6	4.60	18.5	4.04
February .....	<sup>E</sup> 2.60	3.78	6.76	5.97	72.2	4.21	16.7	2.98
March .....	<sup>E</sup> 1.72	3.06	6.49	5.69	68.7	3.38	16.3	2.30
April .....	<sup>E</sup> 1.82	2.90	6.51	5.44	66.4	3.01	16.0	2.30
May .....	<sup>E</sup> 2.04	3.16	6.79	5.39	59.7	2.95	15.6	2.41
June .....	<sup>E</sup> 2.18	3.43	8.10	5.67	57.2	3.11	15.2	2.52
July .....	<sup>RE</sup> 2.01	<sup>R</sup> 3.58	<sup>R</sup> 8.43	5.56	<sup>R</sup> 55.6	<sup>R</sup> 2.97	13.5	2.44
August .....	<sup>E</sup> 2.21	3.24	8.66	5.48	53.8	2.96	13.0	NA
<b>1997 YTD<sup>c</sup></b> .....	<sup>E</sup> 2.28	3.54	6.86	5.77	66.5	3.48	15.7	2.60
<b>1996 YTD</b> .....	2.05	3.23	6.21	5.34	79.1	3.36	20.0	2.70
<b>1995 YTD</b> .....	1.51	2.78	6.15	5.13	77.5	2.61	24.5	2.00

<sup>a</sup> See Appendix A, Explanatory Note 8, of the *Natural Gas Monthly (NGM)* for discussion of wellhead prices.

<sup>b</sup> Percentage of total deliveries represented by onsystem sales, see Figure 6. See Table 24 for breakdown by State.

<sup>c</sup> Year-to-date price represents months for which price information is available in the current year.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

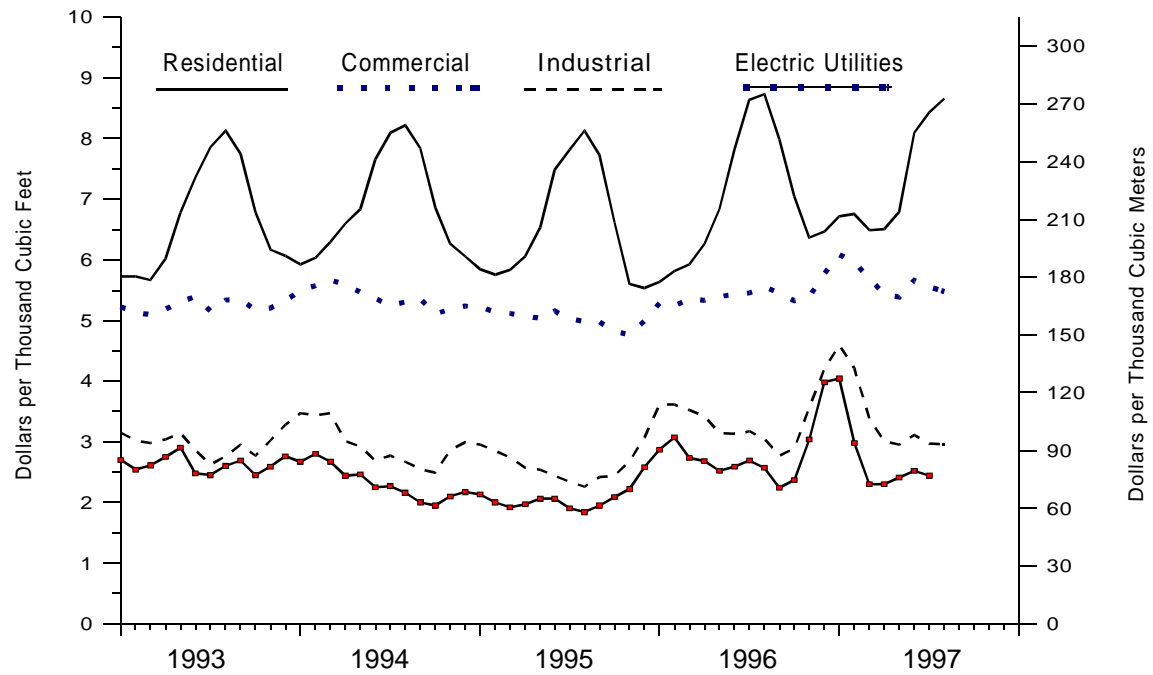
<sup>RE</sup> = Revised Estimated Data.

<sup>NA</sup> = Not Available.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

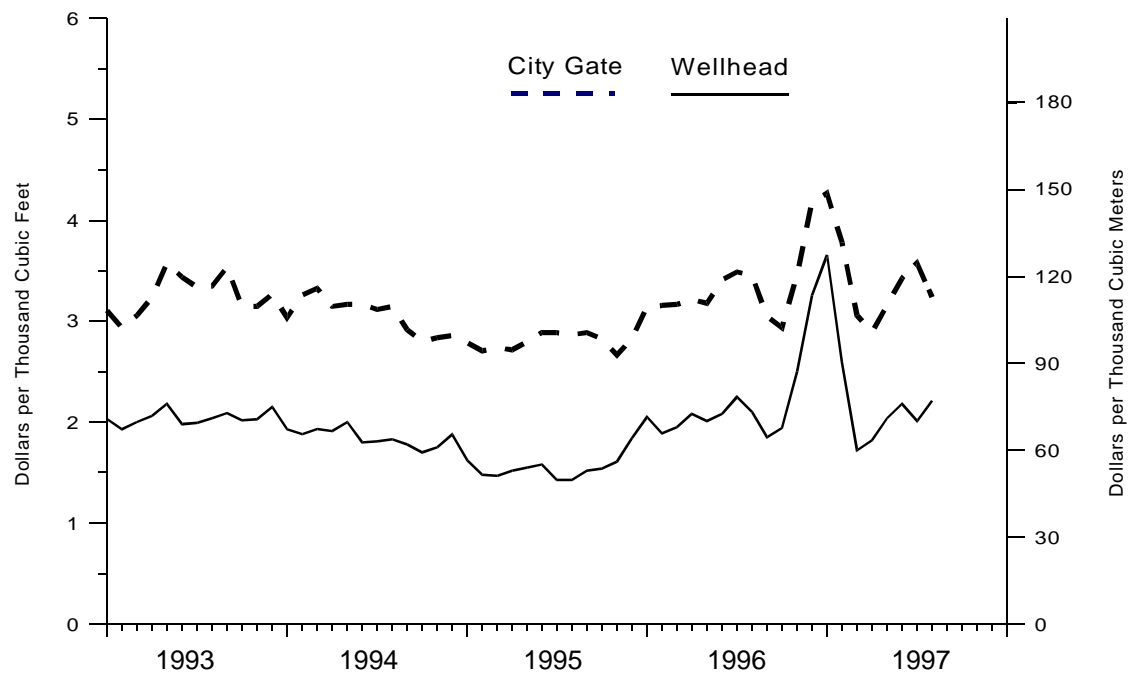
Sources: 1990-1996: Energy Information Administration (EIA) *Natural Gas Annual 1996*. 1997 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1997 through current month: See Appendix A, Explanatory Note 8 for estimation procedures and revision policy.

**Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1993-1997**



Source: Table 4.

**Figure 4. Average Price of Natural Gas in the United States, 1993-1997**



Source: Table 4.

**Table 5. U.S. Natural Gas Imports, by Country, 1991-1997**  
(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG				Total	
	Canada		Mexico		Algeria		Other		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price		
<b>1991 Total</b> .....	1,709,716	1.81	—	—	63,596	2.36	—	—	1,773,313	1.83
<b>1992 Total</b> .....	2,094,387	1.84	—	—	43,116	2.54	—	—	2,137,504	1.85
<b>1993 Total</b> .....	2,266,751	2.02	1,678	1.94	81,685	2.20	—	—	2,350,115	2.03
<b>1994 Total</b> .....	2,566,049	1.86	7,013	1.99	50,778	2.28	—	—	2,623,839	1.87
<b>1995</b>										
January .....	250,666	1.59	158	1.38	2,511	2.40	—	—	253,335	1.60
February .....	233,404	1.45	0	—	2,573	1.81	—	—	235,977	1.46
March .....	247,578	1.39	150	1.50	2,621	2.45	—	—	250,349	1.40
April .....	231,745	1.37	0	—	0	—	—	—	231,745	1.37
May .....	225,682	1.45	0	—	2,576	1.89	—	—	228,259	1.46
June .....	217,456	1.47	0	—	0	—	—	—	217,456	1.47
July .....	222,652	1.40	0	—	0	—	—	—	222,652	1.40
August .....	233,419	1.33	824	1.53	2,648	2.42	—	—	236,891	1.34
September .....	223,836	1.43	3,872	1.53	0	—	—	—	227,708	1.43
October .....	234,284	1.48	1,718	1.56	0	—	—	—	236,003	1.48
November .....	233,857	1.60	0	—	2,487	2.47	—	—	236,344	1.61
December .....	261,828	1.79	0	—	2,502	2.65	—	—	264,329	1.80
<b>Total</b> .....	2,816,408	1.48	6,722	1.53	17,918	2.30	—	—	2,841,048	1.49
<b>1996</b>										
January .....	259,656	2.08	1,499	2.03	2,460	2.81	—	—	263,615	2.09
February .....	230,546	1.94	698	2.14	2,512	2.79	—	—	233,756	1.95
March .....	237,668	1.91	1,259	2.34	2,599	3.06	—	—	241,526	1.92
April .....	230,928	1.86	1,369	2.18	4,559	2.43	—	—	236,857	1.87
May .....	245,522	1.70	4,024	2.14	2,612	2.58	—	—	252,158	1.72
June .....	225,875	1.70	711	2.35	0	—	—	—	226,587	1.70
July .....	232,908	1.82	1,313	2.58	2,642	3.00	—	—	236,864	1.84
August .....	235,199	1.80	30	1.70	2,629	2.56	—	—	237,858	1.80
September .....	234,206	1.60	770	1.69	0	—	<sup>a</sup> 2,524	3.34	237,500	1.62
October .....	241,294	1.68	1,110	2.37	5,116	2.96	—	—	247,520	1.71
November .....	245,795	2.25	982	2.85	5,031	2.59	—	—	251,807	2.26
December .....	263,681	3.00	96	3.30	5,164	2.51	<sup>a</sup> 2,425	3.57	271,366	3.00
<b>Total</b> .....	2,883,277	1.96	13,862	2.25	35,325	2.70	4,949	3.45	2,937,413	1.97
<b>1997</b>										
January .....	264,919	2.93	1,375	3.08	7,560	2.78	<sup>a</sup> 2,417	3.68	276,271	2.93
February .....	233,569	2.49	2,248	2.44	7,667	3.00	—	—	243,484	2.51
March .....	254,416	2.10	2,737	1.84	2,530	2.98	—	—	259,683	2.11
April .....	232,114	1.72	189	1.92	2,557	2.23	—	—	234,860	1.72
May .....	232,065	1.82	2,382	2.03	2,552	2.20	<sup>b</sup> 2,455	2.59	239,455	1.83
June .....	228,505	1.82	1,694	2.21	5,059	2.48	—	—	235,258	1.83
July .....	<sup>RE</sup> 225,528	NA	<sup>RE</sup> 817	NA	5,026	NA	—	—	<sup>RE</sup> 231,371	NA
August .....	<sup>RE</sup> 229,402	NA	<sup>RE</sup> 0	NA	7,535	NA	—	—	<sup>RE</sup> 236,937	NA
September .....	<sup>E</sup> 205,821	NA	<sup>E</sup> 29	NA	5,030	NA	<sup>b</sup> 2,337	NA	<sup>E</sup> 213,217	NA
<b>1997 YTD</b> .....	<sup>E</sup> 2,106,339	NA	<sup>E</sup> 11,472	NA	<sup>E</sup> 45,516	NA	7,210	NA	<sup>E</sup> 2,170,537	NA
<b>1996 YTD</b> .....	2,132,508	1.83	11,674	2.18	20,014	2.72	2,524	3.34	2,166,720	1.84
<b>1995 YTD</b> .....	2,086,439	1.43	5,003	1.52	12,929	2.20	—	—	2,104,372	1.44

<sup>a</sup> Received from the United Arab Emirates.

<sup>b</sup> Received from Australia.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

NA = Not Available.

— = Not Applicable.

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

**Table 6. U.S. Natural Gas Exports, by Country, 1991-1997**  
(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

Year and Month	Pipeline				LNG		Total	
	Canada		Mexico		Japan		Volume	Average Price
	Volume	Average Price	Volume	Average Price	Volume	Average Price		
<b>1991 Total</b> .....	14,791	1.91	60,448	1.76	54,005	3.71	129,244	2.59
<b>1992 Total</b> .....	67,777	1.83	95,973	1.90	52,532	3.43	216,282	2.25
<b>1993 Total</b> .....	44,518	2.14	39,676	2.02	55,989	3.34	140,183	2.59
<b>1994 Total</b> .....	52,556	2.42	46,500	1.68	62,682	3.18	161,738	2.50
<b>1995</b>								
January .....	2,518	2.00	5,576	1.54	5,541	3.35	13,635	2.36
February .....	2,016	2.02	5,542	1.32	5,557	3.38	13,115	2.30
March .....	2,387	1.92	6,670	1.36	5,573	3.39	14,630	2.22
April .....	2,457	1.84	5,941	1.49	3,741	3.47	12,138	2.17
May .....	1,931	2.01	6,848	1.58	3,698	3.54	12,477	2.23
June .....	2,106	1.91	7,945	1.59	5,556	3.59	15,606	2.34
July .....	2,446	1.82	6,526	1.39	5,581	3.58	14,552	2.30
August .....	2,558	1.77	3,431	1.29	7,531	3.47	13,520	2.60
September .....	3,336	2.03	2,378	1.47	5,656	3.36	11,370	2.58
October .....	2,929	1.91	5,588	1.63	3,733	3.30	12,250	2.21
November .....	1,627	2.21	3,535	1.65	7,518	3.29	12,679	2.69
December .....	1,244	2.43	1,303	1.82	5,599	3.31	8,146	2.94
<b>Total</b> .....	27,554	1.96	61,283	1.50	65,283	3.41	154,119	2.39
<b>1996</b>								
January .....	7,044	3.13	1,607	1.98	5,534	3.38	14,186	3.10
February .....	5,207	2.71	2,000	1.82	5,621	3.35	12,828	2.85
March .....	6,616	2.79	2,860	1.81	5,642	3.55	15,118	2.88
April .....	2,430	2.21	1,924	1.69	5,654	3.57	10,008	2.88
May .....	2,809	2.15	1,899	1.84	3,750	3.61	8,458	2.73
June .....	3,001	2.25	3,486	2.16	5,651	3.65	12,138	2.87
July .....	3,777	2.45	3,062	2.24	7,546	3.66	14,385	3.04
August .....	2,197	2.30	9,176	2.11	5,663	3.67	17,036	2.65
September .....	2,514	1.94	2,389	1.73	5,663	3.73	10,566	2.85
October .....	4,311	1.97	1,990	1.85	5,589	3.84	11,889	2.83
November .....	6,776	2.77	1,533	2.56	5,670	4.01	13,979	3.25
December .....	5,222	3.67	1,914	3.72	5,665	3.73	12,801	3.70
<b>Total</b> .....	51,905	2.67	33,840	2.11	67,648	3.65	153,393	2.97
<b>1997</b>								
January .....	4,193	4.08	2,220	4.07	5,604	4.25	12,017	4.16
February .....	5,169	3.02	1,666	2.32	5,596	4.29	12,431	3.50
March .....	9,117	2.06	1,493	1.55	5,675	4.22	16,285	2.76
April .....	5,167	1.78	3,046	1.83	5,660	4.06	13,873	2.72
May .....	4,108	2.09	2,177	1.96	3,812	3.98	10,097	2.77
June .....	3,162	2.28	2,579	2.14	3,786	4.22	9,527	3.01
July .....	<sup>RE</sup> 2,581	NA	<sup>RE</sup> 2,931	NA	3,756	NA	<sup>RE</sup> 9,268	NA
August .....	<sup>RE</sup> 2,500	NA	<sup>RE</sup> 5,708	NA	<sup>R</sup> 7,532	NA	<sup>RE</sup> 15,740	NA
September .....	<sup>E</sup> 2,500	NA	<sup>E</sup> 5,488	NA	3,767	NA	<sup>E</sup> 11,755	NA
<b>1997 YTD</b> .....	<sup>E</sup> 38,497	NA	<sup>E</sup> 27,309	NA	<sup>E</sup> 45,189	NA	<sup>E</sup> 110,995	NA
<b>1996 YTD</b> .....	35,595	2.58	28,403	1.99	50,725	3.58	114,723	2.87
<b>1995 YTD</b> .....	21,754	1.92	50,857	1.46	48,433	3.46	121,044	2.34

<sup>R</sup> = Revised Data.  
<sup>E</sup> = Estimated Data.  
<sup>RE</sup> = Revised Estimated Data.  
<sup>NA</sup> = Not Available.

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

**Table 7. Marketed Production of Natural Gas, by State, 1991-1997**  
(Million Cubic Feet)

Year and Month	Alabama <sup>b</sup>	Alaska	Arizona	California	Colorado	Florida	Kansas
<b>1991 Total</b> .....	170,847	437,822	1,225	378,384	285,961	4,884	628,459
<b>1992 Total</b> .....	355,099	443,597	771	365,632	323,041	6,657	658,007
<b>1993 Total</b> .....	388,024	430,350	597	315,851	400,985	7,085	686,347
<b>1994 Total</b> .....	515,272	555,402	752	309,427	453,207	7,486	712,730
<b>1995</b>							
January .....	43,456	43,391	43	24,674	47,253	559	64,211
February .....	39,652	38,966	40	22,028	41,958	570	60,635
March .....	43,734	43,037	43	23,829	45,291	598	59,382
April .....	42,727	39,714	42	22,819	45,021	578	59,555
May .....	44,169	39,308	44	23,055	45,187	604	61,639
June .....	42,737	35,781	40	22,145	42,589	535	58,686
July .....	45,521	36,246	50	22,545	43,042	537	59,830
August .....	45,244	35,724	58	22,584	43,105	502	58,451
September .....	37,523	36,488	53	22,276	41,295	508	53,756
October .....	45,123	39,695	52	24,100	45,563	475	58,743
November .....	44,954	39,324	48	24,188	45,440	497	60,691
December .....	44,820	41,874	44	25,312	37,338	502	65,856
<b>Total</b> .....	519,661	469,550	558	279,555	523,084	6,463	721,436
<b>1996</b>							
January .....	45,653	44,655	41	20,714	48,619	518	62,976
February .....	42,668	40,433	42	22,910	45,504	493	62,683
March .....	45,334	43,738	45	24,686	47,843	460	63,027
April .....	43,868	39,694	36	23,988	45,293	456	60,858
May .....	45,160	36,348	39	24,091	46,893	483	62,194
June .....	43,319	37,334	45	23,281	45,212	503	56,318
July .....	43,257	37,272	30	24,495	45,570	500	57,095
August .....	43,873	37,239	43	24,547	51,269	540	55,144
September .....	42,834	38,039	31	23,826	45,437	537	55,563
October .....	42,200	41,204	34	24,261	50,245	468	57,589
November .....	45,395	40,706	37	24,493	49,824	517	58,460
December .....	47,278	44,166	40	25,203	50,363	531	60,890
<b>Total</b> .....	530,841	480,828	463	286,494	572,071	6,006	712,796
<b>1997</b>							
January .....	32,136	45,409	46	24,427	47,843	525	60,197
February .....	29,307	40,017	41	23,877	47,967	510	54,234
March .....	32,291	43,559	42	23,879	52,372	607	60,099
April .....	32,077	39,267	39	23,223	48,571	552	57,085
May .....	31,326	35,821	36	23,690	48,444	538	61,661
June .....	30,137	37,634	28	23,507	44,744	448	57,731
July .....	31,331	35,680	31	23,981	50,319	512	56,193
<b>1997 YTD</b> .....	218,605	277,386	263	166,584	340,261	3,692	407,201
<b>1996 YTD</b> .....	309,261	279,474	278	164,165	324,934	3,412	425,149
<b>1995 YTD</b> .....	301,997	276,444	303	161,094	310,343	3,980	423,939

See footnotes at end of table.

**Table 7. Marketed Production of Natural Gas, by State, 1991-1997**

(Million Cubic Feet) — Continued

Year and Month	Louisiana <sup>c</sup>	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
<b>1991 Total</b> .....	5,034,361	195,749	108,031	51,999	1,038,284	53,479	2,153,852
<b>1992 Total</b> .....	4,914,300	194,815	91,697	53,867	1,268,863	54,883	2,017,356
<b>1993 Total</b> .....	4,991,138	204,635	80,695	54,528	1,409,429	59,851	2,049,942
<b>1994 Total</b> .....	5,169,705	222,657	63,448	50,416	1,557,689	57,805	1,934,864
<b>1995</b>							
January .....	437,237	22,536	7,664	4,919	134,508	4,284	160,707
February .....	386,483	7,882	6,874	4,278	125,334	3,933	143,517
March .....	417,303	31,418	7,651	4,716	136,983	4,410	154,640
April .....	411,156	17,507	7,408	4,381	131,657	4,111	148,305
May .....	432,964	19,427	8,138	4,153	137,827	4,313	149,369
June .....	412,412	25,052	7,836	3,420	130,688	4,186	143,346
July .....	432,943	23,349	7,959	3,493	132,372	3,615	145,565
August .....	420,784	19,129	8,685	3,570	138,073	4,128	145,609
September .....	422,232	21,698	8,783	3,734	134,030	4,129	143,565
October .....	401,813	19,548	8,429	4,345	139,330	4,239	156,378
November .....	452,671	15,086	7,874	4,566	140,166	4,019	156,667
December .....	480,368	15,569	8,233	4,690	144,869	4,101	164,066
<b>Total</b> .....	5,108,366	238,203	95,533	50,264	1,625,837	49,468	1,811,734
<b>1996</b>							
January .....	437,274	21,912	8,089	4,503	135,594	4,276	143,693
February .....	412,611	18,686	7,386	4,266	126,370	3,880	139,115
March .....	446,371	11,208	8,385	4,443	138,091	4,164	131,701
April .....	436,014	32,072	8,225	4,098	132,572	4,122	147,949
May .....	451,148	18,021	9,026	4,244	138,946	4,273	149,425
June .....	434,668	23,572	8,983	3,496	131,778	3,990	143,675
July .....	449,052	27,119	9,335	3,603	125,193	4,047	146,451
August .....	449,461	23,261	9,193	4,050	126,967	4,096	148,463
September .....	431,768	20,208	8,641	4,172	122,040	4,185	143,302
October .....	421,252	20,374	8,996	4,668	123,570	4,246	150,322
November .....	427,566	16,081	8,487	4,521	124,377	4,216	146,828
December .....	443,563	13,227	8,518	4,933	128,590	4,178	143,965
<b>Total</b> .....	5,240,747	245,740	103,263	50,996	1,554,087	49,674	1,734,887
<b>1997</b>							
January .....	<sup>E</sup> 448,338	35,849	8,089	4,638	125,382	4,035	<sup>E</sup> 150,892
February .....	<sup>E</sup> 415,971	17,314	7,807	4,380	125,445	3,921	<sup>E</sup> 139,315
March .....	<sup>E</sup> 457,604	<sup>E</sup> 25,435	8,470	<sup>E</sup> 4,608	133,144	4,313	<sup>E</sup> 148,412
April .....	<sup>E</sup> 450,146	13,281	8,120	<sup>E</sup> 4,320	132,748	4,176	<sup>E</sup> 134,900
May .....	<sup>E</sup> 460,590	40,848	8,611	4,166	131,908	4,542	<sup>E</sup> 137,283
June .....	<sup>E</sup> 453,645	19,700	8,893	<sup>R</sup> 3,792	<sup>R</sup> 132,681	4,341	<sup>E</sup> 132,350
July .....	468,677	<sup>E</sup> 20,882	8,636	<sup>E</sup> 3,887	131,653	4,420	136,866
<b>1997 YTD</b> .....	3,154,971	173,308	58,626	29,791	912,962	29,748	980,018
<b>1996 YTD</b> .....	<sup>E</sup> 3,067,137	152,590	59,428	28,652	<sup>E</sup> 928,544	28,753	<sup>E</sup> 1,002,008
<b>1995 YTD</b> .....	2,930,498	147,172	53,530	29,359	929,369	28,852	1,045,450

See footnotes at end of table.

**Table 7. Marketed Production of Natural Gas, by State, 1991-1997**  
(Million Cubic Feet) — Continued

Year and Month	Oregon	Texas <sup>c</sup>	Utah	Wyoming	Other <sup>a</sup> States	U.S. Total
<b>1991 Total</b> .....	2,741	6,280,654	144,817	776,528	784,362	18,532,439
<b>1992 Total</b> .....	2,580	6,145,862	171,293	842,576	800,913	18,711,808
<b>1993 Total</b> .....	4,003	6,249,624	225,401	634,957	788,472	18,981,915
<b>1994 Total</b> .....	3,221	6,353,844	270,858	696,018	774,724	19,709,525
<b>1995</b>						
January .....	279	528,857	22,354	62,919	66,793	1,676,643
February .....	214	479,553	21,686	50,369	61,412	1,495,384
March .....	208	538,515	25,813	57,602	64,520	1,659,694
April .....	150	523,631	24,529	59,544	61,326	1,604,162
May .....	137	539,311	22,498	54,039	62,505	1,648,688
June .....	135	526,759	15,626	51,792	63,229	1,586,994
July .....	150	548,617	17,120	55,403	61,116	1,639,474
August .....	139	545,415	17,676	57,125	62,212	1,628,213
September .....	128	520,687	18,447	51,741	59,787	1,580,857
October .....	128	524,049	16,987	57,494	63,766	1,610,256
November .....	126	522,744	18,062	56,956	62,910	1,656,989
December .....	130	531,909	20,493	58,792	70,151	1,719,118
<b>Total</b> .....	1,923	6,330,048	241,290	673,775	759,728	19,506,474
<b>1996</b>						
January .....	120	545,658	19,998	58,691	69,638	1,672,623
February .....	75	512,557	18,027	56,037	66,726	1,580,472
March .....	105	552,700	21,650	57,270	72,373	1,673,596
April .....	121	529,015	20,864	54,662	65,643	1,649,552
May .....	140	547,843	21,035	52,805	67,061	1,679,176
June .....	132	533,168	20,759	59,346	64,752	1,634,329
July .....	146	557,986	20,573	55,519	64,500	1,671,743
August .....	117	550,499	21,137	54,567	66,523	1,670,989
September .....	132	529,524	21,589	51,949	65,361	1,609,140
October .....	133	543,264	22,152	53,649	69,163	1,637,792
November .....	113	517,147	21,606	53,990	70,997	1,615,362
December .....	102	529,659	21,376	57,551	71,875	1,656,019
<b>Total</b> .....	1,439	6,449,022	250,767	666,036	814,612	19,750,793
<b>1997</b>						
January .....	105	560,683	21,782	53,272	<sup>RE</sup> 69,157	<sup>E</sup> 1,692,806
February .....	98	509,089	19,115	45,143	<sup>RE</sup> 64,219	<sup>E</sup> 1,547,768
March .....	101	560,042	21,912	62,872	<sup>RE</sup> 68,518	<sup>E</sup> 1,708,280
April .....	102	531,761	19,570	60,661	<sup>RE</sup> 64,329	<sup>E</sup> 1,624,930
May .....	102	549,243	22,053	62,147	<sup>RE</sup> 64,899	<sup>E</sup> 1,687,907
June .....	97	527,306	<sup>R</sup> 19,815	55,384	<sup>RE</sup> 64,227	<sup>RE</sup> 1,616,460
July .....	98	533,930	<sup>E</sup> 20,804	60,873	<sup>E</sup> 64,033	<sup>E</sup> 1,652,806
<b>1997 YTD</b> .....	704	3,772,054	145,049	400,351	459,382	11,530,958
<b>1996 YTD</b> .....	841	3,778,929	142,907	394,330	<sup>E</sup> 470,692	<sup>E</sup> 11,561,491
<b>1995 YTD</b> .....	1,272	3,685,244	149,625	391,668	440,902	11,311,040

<sup>a</sup> Includes Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1997 monthly values for these States are estimated.

<sup>b</sup> The 1992, 1993, 1994, 1995, and 1996 monthly and annual values include Federal Offshore production.

<sup>c</sup> Monthly Federal offshore production volumes are included.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Sources: 1991-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*. 1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," Minerals Management Service reports, and EIA computations.



**Table 8. Gross Withdrawals and Marketed Production of Natural Gas by State,  
July 1997**  
(Million Cubic Feet)

State	Gross Withdrawals			Repressuring	Nonhydro- carbon Gases Removed <sup>a</sup>	Vented and Flared	Marketed Production
	From Gas Wells	From Oil Wells	Total				
Alabama .....	34,265	833	35,098	1,438	2,210	119	31,331
Alaska .....	13,091	250,249	263,340	226,959	0	701	35,680
Arizona .....	28	3	31	0	0	0	31
California .....	6,330	27,886	34,216	10,096	94	46	23,981
Colorado .....	43,422	7,580	51,001	588	0	94	50,319
Florida .....	0	579	579	0	66	0	512
Kansas .....	49,584	6,761	56,345	96	0	56	56,193
Louisiana .....	<sup>E</sup> 412,433	<sup>E</sup> 62,001	<sup>E</sup> 474,433	<sup>E</sup> 3,721	0	<sup>E</sup> 2,035	468,677
Michigan .....	<sup>E</sup> 10,014	<sup>E</sup> 11,268	<sup>E</sup> 21,282	<sup>E</sup> 165	0	<sup>E</sup> 235	<sup>E</sup> 20,882
Mississippi .....	9,436	625	10,060	573	633	218	8,636
Montana .....	<sup>E</sup> 3,451	<sup>E</sup> 469	<sup>E</sup> 3,921	<sup>E</sup> 5	0	<sup>E</sup> 29	<sup>E</sup> 3,887
New Mexico .....	116,665	20,309	136,975	911	4,173	237	131,653
North Dakota .....	1,426	3,291	4,717	0	10	288	4,420
Oklahoma .....	<sup>E</sup> 115,079	<sup>E</sup> 21,787	<sup>E</sup> 136,866	0	0	0	136,866
Oregon .....	117	0	117	4	14	0	98
Texas .....	473,415	114,552	587,967	38,050	13,513	2,474	533,930
Utah .....	<sup>E</sup> 18,708	<sup>E</sup> 3,111	<sup>E</sup> 21,819	<sup>E</sup> 59	0	<sup>E</sup> 956	<sup>E</sup> 20,804
Wyoming .....	89,047	9,719	98,766	11,966	12,955	12,972	60,873
Other States .....	<sup>E</sup> 60,562	<sup>E</sup> 4,294	<sup>E</sup> 64,857	<sup>E</sup> 182	0	<sup>E</sup> 641	<sup>E</sup> 64,033
<b>Total .....</b>	<sup>E</sup> 1,457,073	<sup>E</sup> 545,317	<sup>E</sup> 2,002,389	<sup>E</sup> 294,813	<sup>E</sup> 33,669	<sup>E</sup> 21,101	<sup>E</sup> 1,652,806

<sup>a</sup> See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

<sup>E</sup> = Estimated Data.

Notes: All monthly data are considered preliminary until publication of the *Natural Gas Annual* for that year. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.

Source: Form EIA-895, "Monthly Quantity of Natural Gas Report."

**Table 9. Underground Natural Gas Storage - All Operators, 1991-1997**  
(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change In Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net Withdrawals <sup>c</sup>
<b>1991 Total<sup>a</sup></b> .....	3,954	2,824	6,778	-244	-8.0	2,608	2,689	80
<b>1992 Total<sup>a</sup></b> .....	4,044	2,597	6,641	-227	-8.0	2,555	2,724	168
<b>1993 Total<sup>a</sup></b> .....	4,327	2,322	6,649	-275	-10.6	2,760	2,717	-43
<b>1994 Total<sup>a</sup></b> .....	4,360	2,606	6,966	284	12.2	2,796	2,508	-288
<b>1995</b>								
January .....	4,365	2,045	6,410	466	29.5	45	644	599
February .....	4,368	1,542	5,910	451	41.4	44	564	519
March .....	4,362	1,332	5,694	374	39.0	104	327	223
April .....	4,360	1,379	5,740	207	17.7	177	127	-49
May .....	4,393	1,668	6,061	114	7.3	369	34	-335
June .....	4,406	2,014	6,420	118	6.2	410	40	-371
July .....	4,340	2,301	6,641	28	1.2	359	54	-306
August .....	4,339	2,495	6,834	-112	-4.3	293	86	-207
September .....	4,341	2,802	7,143	-110	-3.8	343	29	-313
October .....	4,338	2,996	7,334	-79	-2.6	274	68	-205
November .....	4,342	2,728	7,070	-249	-8.4	96	367	272
December .....	4,349	2,153	6,503	-453	-17.4	53	635	582
<b>Total</b> .....	—	—	—	—	—	2,566	2,974	408
<b>1996</b>								
January .....	4,354	1,462	5,817	-583	-28.5	49	749	700
February .....	4,349	1,021	5,369	-521	-33.8	97	544	447
March .....	4,290	758	5,048	-574	-43.1	80	403	323
April .....	4,312	854	5,166	-525	-38.1	227	112	-115
May .....	4,332	1,161	5,493	-507	-30.4	373	45	-328
June .....	4,341	1,529	5,870	-485	-24.1	410	35	-375
July .....	4,336	1,898	6,234	-404	-17.5	418	49	-370
August .....	4,332	2,245	6,577	-250	-10.0	400	54	-346
September .....	4,338	2,605	6,943	-197	-7.0	398	32	-366
October .....	4,335	2,810	7,145	-186	-6.2	276	73	-203
November .....	4,339	2,549	6,889	-179	-6.6	90	354	264
December .....	4,341	2,173	6,513	19	0.9	86	461	374
<b>Total</b> .....	—	—	—	—	—	2,906	2,911	6
<b>1997</b>								
January .....	4,347	1,496	5,843	34	2.3	66	749	683
February .....	4,341	1,140	5,481	119	11.7	53	411	358
March .....	4,344	990	5,334	232	30.6	126	281	156
April .....	4,340	1,049	5,390	195	22.9	202	143	-59
May .....	4,342	1,360	5,701	199	17.1	360	38	-322
June .....	4,355	1,731	6,087	202	13.2	405	39	-366
July .....	4,354	2,018	6,372	120	6.3	355	81	-274
August .....	4,355	2,334	6,689	90	4.0	376	52	-323
September .....	<sup>R</sup> 4,357	<sup>R</sup> 2,667	<sup>R</sup> 7,024	<sup>R</sup> 62	<sup>R</sup> 2.4	373	43	<sup>R</sup> -330
<b>October(STIFS)</b> .....	<sup>RE</sup> 4,357	<sup>RE</sup> 2,867	<sup>RE</sup> 7,224	<sup>RE</sup> 57	<sup>RE</sup> 2.0	NA	NA	<sup>RE</sup> -200
<b>November(STIFS)</b> .....	<sup>E</sup> 4,357	<sup>E</sup> 2,657	<sup>E</sup> 7,014	<sup>E</sup> 108	<sup>E</sup> 4.2	NA	NA	<sup>E</sup> 210

<sup>a</sup> Total as of December 31.

<sup>b</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 7,993; 1992 - 7,932; 1993 - 7,989; 1994 - 8,043; 1995 - 7,927; and 1996 - 8,159.

<sup>c</sup> Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.

<sup>R</sup> = Revised Data.

<sup>E</sup> = Estimated Data.

<sup>RE</sup> = Revised Estimated Data.

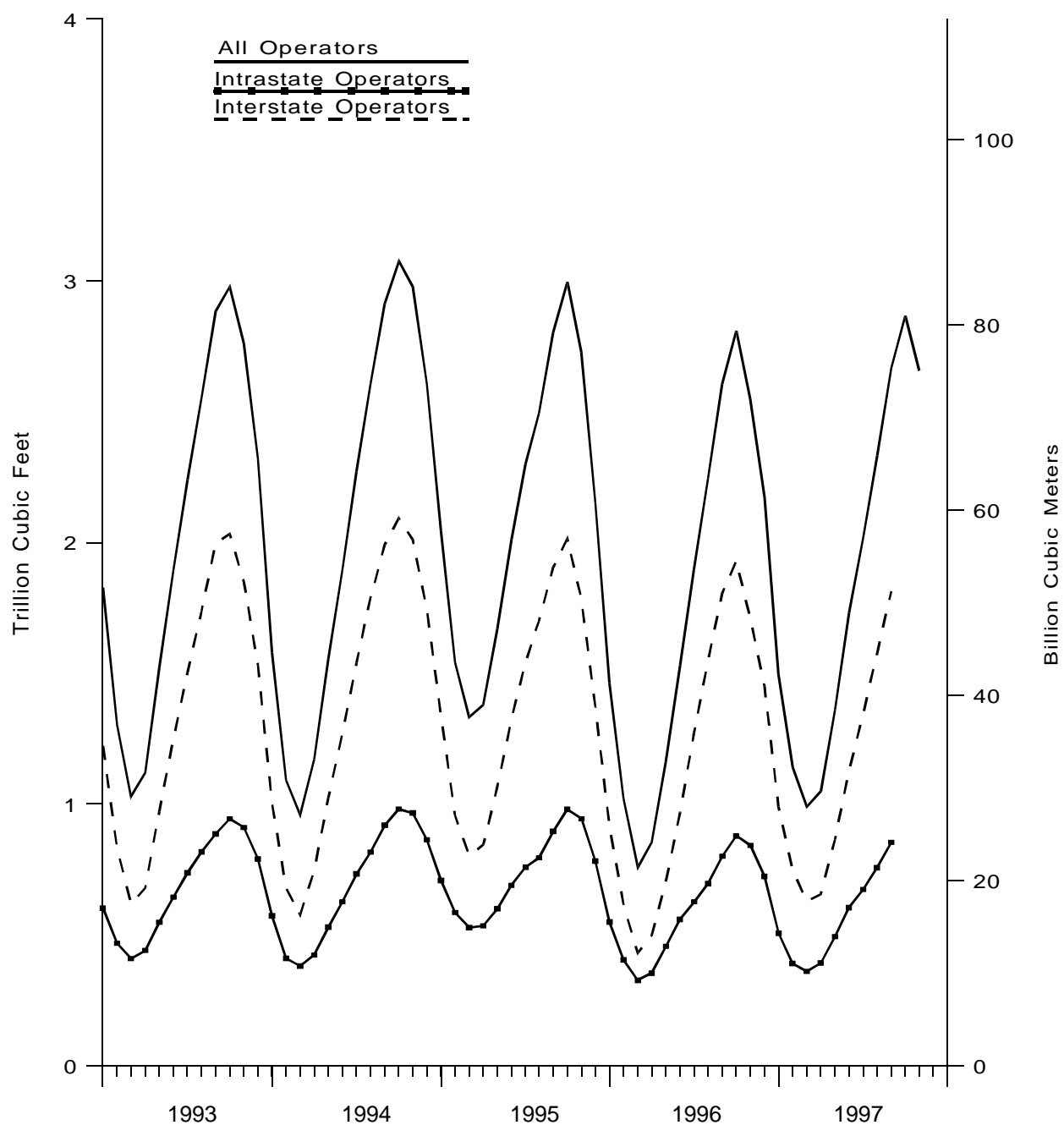
NA = Not Available.

— = Not Applicable.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

**Figure 5. Underground Natural Gas Storage in the United States, 1993-1997**



Sources: Energy Information Administration, Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 10. Underground Natural Gas Storage - Interstate Operators of Storage Fields, 1991-1997**

(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net Withdrawals
<b>1991 Total<sup>a</sup></b> .....	2,571	1,985	4,556	-218	-9.9	1,904	2,015	111
<b>1992 Total<sup>a</sup></b> .....	2,652	1,819	4,471	-166	-8.4	1,838	1,940	102
<b>1993 Total<sup>a</sup></b> .....	2,939	1,531	4,470	-288	-15.8	1,911	1,894	-17
<b>1994 Total<sup>a</sup></b> .....	2,960	1,743	4,703	212	13.8	1,913	1,701	-213
<b>1995</b>								
January .....	2,957	1,336	4,293	330	32.8	27	449	422
February .....	2,958	956	3,914	276	40.6	20	404	384
March .....	2,955	804	3,759	228	39.6	66	225	159
April .....	2,954	845	3,799	97	13.0	122	78	-43
May .....	2,956	1,067	4,024	43	4.2	250	17	-233
June .....	2,962	1,324	4,287	55	4.3	292	23	-268
July .....	2,896	1,543	4,438	3	0.2	257	28	-229
August .....	2,893	1,700	4,593	-90	-5.0	208	45	-163
September .....	2,894	1,906	4,800	-86	-4.3	225	16	-209
October .....	2,891	2,016	4,907	-78	-3.7	162	48	-114
November .....	2,895	1,785	4,680	-226	-11.3	38	272	234
December .....	2,899	1,372	4,271	-371	-21.3	25	442	417
<b>Total</b> .....	—	—	—	—	—	1,692	2,048	356
<b>1996</b>								
January .....	2,897	913	3,809	-424	-31.7	23	482	459
February .....	2,894	616	3,510	-340	-35.6	60	359	298
March .....	2,854	431	3,286	-372	-46.3	44	268	224
April .....	2,868	499	3,367	-346	-40.9	152	73	-80
May .....	2,884	704	3,589	-363	-34.0	250	27	-224
June .....	2,893	969	3,862	-355	-26.8	286	16	-270
July .....	2,891	1,271	4,162	-272	-17.6	313	17	-296
August .....	2,889	1,549	4,437	-151	-8.9	292	14	-277
September .....	2,893	1,804	4,697	-102	-5.4	273	13	-260
October .....	2,892	1,932	4,824	-84	-4.2	172	46	-126
November .....	2,893	1,707	4,600	-78	-4.4	40	263	224
December .....	2,894	1,449	4,343	77	5.6	47	303	257
<b>Total</b> .....	—	—	—	—	-16.9	1,953	1,881	-72
<b>1997</b>								
January .....	2,887	990	3,876	77	8.4	38	498	461
February .....	2,887	749	3,636	133	21.6	32	276	244
March .....	2,885	629	3,514	197	45.7	72	195	123
April .....	2,883	656	3,538	157	31.4	114	88	-26
May .....	2,884	865	3,750	161	22.9	234	20	-214
June .....	2,894	1,126	4,021	157	16.3	278	16	-262
July .....	2,893	1,344	4,238	74	5.8	248	43	-206
August .....	2,893	1,577	4,470	29	1.8	257	20	-237
September .....	2,893	1,813	4,705	9	0.5	245	11	-234

<sup>a</sup> Total as of December 31.

<sup>b</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 5,512; 1992 - 5,524; 1993 - 5,367; 1994 - 5,351; 1995 - 5,314; and 1996 - 7,952.

— = Not Applicable.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 11. Underground Natural Gas Storage - Intrastate Operators and Independent Producers, 1991-1997**

(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>b</sup>	Volume	Percent	Injections	Withdrawals	Net Withdrawals
<b>1991 Total<sup>a</sup></b> .....	1,383	839	2,221	-25	-2.9	705	674	-31
<b>1992 Total<sup>a</sup></b> .....	1,392	778	2,170	-61	-7.3	717	784	67
<b>1993 Total<sup>a</sup></b> .....	1,388	791	2,179	13	1.7	826	802	-24
<b>1994 Total<sup>a</sup></b> .....	1,400	864	2,263	73	9.2	882	807	-75
<b>1995</b>								
January .....	1,409	709	2,118	136	23.7	17	195	177
February .....	1,410	586	1,995	175	42.6	24	160	136
March .....	1,407	528	1,935	146	38.2	38	102	64
April .....	1,406	535	1,941	111	26.1	55	49	-6
May .....	1,437	601	2,037	70	13.3	120	17	-103
June .....	1,443	690	2,133	63	10.0	119	16	-102
July .....	1,444	759	2,203	25	3.4	102	25	-77
August .....	1,446	795	2,241	-22	-2.7	85	41	-44
September .....	1,447	896	2,343	-24	-2.6	118	14	-104
October .....	1,446	980	2,427	-1	-0.1	112	20	-91
November .....	1,447	944	2,390	-23	-2.4	57	95	38
December .....	1,450	782	2,232	-82	-9.5	28	192	165
<b>Total</b> .....	—	—	—	—	—	874	926	52
<b>1996</b>								
January .....	1,457	550	2,007	-159	-22.4	26	267	241
February .....	1,455	405	1,859	-181	-30.9	36	185	148
March .....	1,436	327	1,763	-202	-38.2	36	135	98
April .....	1,445	355	1,800	-179	-33.6	75	40	-35
May .....	1,447	457	1,904	-144	-23.9	123	19	-104
June .....	1,448	560	2,008	-129	-18.8	124	19	-105
July .....	1,445	627	2,072	-132	-17.4	105	32	-73
August .....	1,443	696	2,139	-99	-12.4	109	40	-69
September .....	1,445	801	2,246	-95	-10.6	125	19	-106
October .....	1,443	879	2,322	-102	-10.4	104	27	-76
November .....	1,447	842	2,289	-102	-10.8	51	91	40
December .....	1,447	724	2,170	-58	-7.4	40	158	118
<b>Total</b> .....	—	—	—	—	-18.0	953	1,030	77
<b>1997</b>								
January .....	1,460	507	1,966	-43	-7.9	29	251	222
February .....	1,454	391	1,845	-14	-3.4	21	135	114
March .....	1,459	361	1,820	35	10.6	54	86	32
April .....	1,458	394	1,851	39	10.9	88	55	-33
May .....	1,458	494	1,952	37	8.2	126	18	-107
June .....	1,461	605	2,066	45	8.0	127	24	-104
July .....	1,461	674	2,135	47	7.5	107	39	-68
August .....	1,462	757	2,219	61	8.8	118	32	-86
September .....	1,464	854	2,318	53	6.7	128	32	-96

<sup>a</sup> Total as of December 31.

<sup>b</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 2,481; 1992 - 2,407; 1993 - 2,621; 1994 - 2,692; 1995 - 2,613; and 1996 - 7,952.

— = Not Applicable.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 12. Net Withdrawals from Underground Storage, by State, 1995-1997**  
(Volumes in Million Cubic Feet)

State	1997						
	September	August	July	June	May	April	March
Alabama .....	-262	-286	-43	-93	-271	-130	-25
Arkansas .....	-1,048	-1,234	-1,472	-1,340	-608	178	342
California .....	-6,814	-8,430	-11,406	-23,191	-24,048	-19,220	-441
Colorado .....	-5,141	-4,488	-5,540	-5,257	-5,328	5,569	2,069
Connecticut .....	—	—	—	—	—	—	—
Illinois .....	-34,708	-36,934	-24,289	-29,099	-24,940	-546	23,189
Indiana .....	-4,603	-3,749	-3,317	-1,914	-110	1,444	2,498
Iowa .....	-12,762	-10,938	-3,722	-8,361	-3,473	1,627	2,953
Kansas .....	-13,678	-11,439	-3,703	-12,195	-9,699	-1,605	4,096
Kentucky .....	-7,983	-6,520	-7,391	-8,991	-7,821	-343	4,166
Louisiana .....	-22,111	-15,080	-13,862	-20,312	-19,293	-4,278	-17,950
Maryland .....	-2,766	-2,292	-1,497	-1,657	-1,590	133	1,903
Michigan .....	-64,521	-72,305	-75,302	-72,604	-46,126	-13,752	53,314
Minnesota .....	-130	-137	-321	-312	-273	-31	188
Mississippi .....	-5,274	-3,115	1,249	-3,812	-5,552	442	-2,306
Missouri .....	-240	-379	-433	-112	-1,200	56	1,174
Montana .....	-1,490	-2,339	-2,710	-1,633	-846	1,810	2,591
Nebraska .....	-1,091	-964	-75	-797	-708	-43	-241
New Jersey .....	—	—	—	—	—	—	—
New Mexico .....	-853	-328	587	-534	-1,228	583	501
New York .....	-6,626	-11,609	-11,628	-10,571	-7,770	-1,700	9,210
North Carolina .....	—	—	—	—	—	—	—
Ohio .....	-23,528	-32,054	-34,093	-37,335	-34,081	-1,385	21,557
Oklahoma .....	-14,433	-8,317	-1,448	-8,028	-18,258	-7,130	-8,092
Oregon .....	-391	-1,123	-1,240	-1,602	-1,239	543	920
Pennsylvania .....	-47,372	-44,991	-41,099	-49,619	-44,272	-3,306	50,263
Rhode Island .....	—	—	—	—	—	—	—
Tennessee .....	—	—	—	—	—	—	—
Texas .....	-24,920	-13,272	6,604	-20,500	-27,751	-17,395	-21,183
Utah .....	-3,235	-5,284	-8,117	-7,950	-4,255	-2,150	-2,620
Virginia .....	—	—	—	—	—	—	—
Washington .....	-2,267	990	-490	-3,766	-5,880	-66	3,217
West Virginia .....	-19,007	-24,039	-26,065	-31,691	-23,964	1,715	23,312
Wyoming .....	-2,424	-2,712	-3,393	-2,290	-1,119	127	1,082
<b>Total .....</b>	<b>-329,677</b>	<b>-323,371</b>	<b>-274,218</b>	<b>-365,566</b>	<b>-321,702</b>	<b>-58,853</b>	<b>155,688</b>

See footnotes at end of table.

**Table 12. Net Withdrawals from Underground Storage, by State, 1995-1997**  
(Volumes in Million Cubic Feet) — Continued

State	1997		1996				
	February	January	Total	December	November	October	September
Alabama .....	184	531	-1,224	761	129	-117	-440
Arkansas .....	1,006	1,978	64	644	562	-603	-1,153
California .....	19,742	38,477	51,292	14,985	-2,885	-6,393	-6,822
Colorado .....	4,862	5,523	-1,004	2,923	92	-87	-3,828
Connecticut .....	—	—	0	0	0	0	0
Illinois .....	39,774	63,858	<sup>R</sup> -15,108	35,109	15,523	-28,103	-36,529
Indiana .....	2,866	7,272	-1,801	3,290	-853	-2,715	-3,911
Iowa .....	8,469	15,926	-1,229	18,020	5,502	-10,555	-12,536
Kansas .....	9,102	13,633	12,118	12,290	12,828	-6,005	-8,532
Kentucky .....	8,068	18,108	-7,530	8,039	4,853	-2,826	-8,590
Louisiana .....	21,117	47,088	10,964	32,273	29,327	-15,704	-33,463
Maryland .....	2,662	5,873	24	958	1,424	-1,553	-1,677
Michigan .....	71,108	120,403	-31,671	83,640	61,160	-49,100	-81,220
Minnesota .....	117	588	-30	218	30	-35	-202
Mississippi .....	2,924	12,169	-12,758	4,658	5,707	-3,369	-7,330
Missouri .....	-252	1,126	-48	76	306	-210	-204
Montana .....	3,983	5,651	11,725	5,512	4,760	336	-3,519
Nebraska .....	504	867	-1,489	1,108	479	600	-785
New Jersey .....	—	—	0	0	0	0	0
New Mexico .....	1,527	591	5,338	-823	607	482	-1,873
New York .....	10,116	17,636	-13,367	8,151	6,347	-2,750	-7,327
North Carolina .....	—	—	0	0	0	0	0
Ohio .....	28,120	58,636	-10,844	35,138	25,728	-13,648	-23,807
Oklahoma .....	7,912	27,616	22,961	20,970	17,468	-10,345	-18,814
Oregon .....	1,078	1,341	783	1,240	552	170	-121
Pennsylvania .....	52,298	94,228	-59,533	25,003	33,464	-15,621	-37,711
Rhode Island .....	—	—	0	0	0	0	0
Tennessee .....	—	—	0	0	0	0	0
Texas .....	24,869	55,056	63,869	24,153	12,557	-22,072	-34,225
Utah .....	2,520	8,931	12,955	9,164	4,651	1,416	-2,204
Virginia .....	—	—	0	0	0	0	0
Washington .....	1,798	1,587	2,067	1,746	462	1,648	-597
West Virginia .....	28,900	53,643	-35,844	21,644	19,884	-15,242	-28,009
Wyoming .....	2,976	4,361	5,056	3,529	2,903	-272	-613
<b>Total .....</b>	<b>358,350</b>	<b>682,696</b>	<b>5,735</b>	<b>374,417</b>	<b>263,567</b>	<b>-202,675</b>	<b>-366,042</b>

See footnotes at end of table.

**Table 12. Net Withdrawals from Underground Storage, by State, 1995-1997**  
(Volumes in Million Cubic Feet) — Continued

State	1996					
	August	July	June	May	April	March
Alabama .....	-395	-205	-670	-367	-153	162
Arkansas .....	-615	-744	-1,166	-1,302	-44	1,259
California .....	15,439	7,028	-9,697	-23,523	-11,917	1,459
Colorado .....	-3,722	-5,347	-5,035	-2,271	1,268	5,022
Connecticut .....	0	0	0	0	0	0
Illinois .....	-35,172	-35,480	-32,122	-26,711	-3,200	22,829
Indiana .....	-6,115	-4,278	-2,398	-178	948	3,532
Iowa .....	-13,166	-12,393	-7,677	-1,640	1,980	6,303
Kansas .....	-8,265	-7,537	-12,192	-7,892	-5,779	9,984
Kentucky .....	-10,071	-13,358	-14,231	-6,224	380	7,911
Louisiana .....	-32,218	-29,380	-16,986	-11,703	-2,727	25,245
Maryland .....	-1,845	-1,887	-2,621	-2,154	212	1,827
Michigan .....	-82,649	-80,355	-78,794	-58,040	-14,063	51,828
Minnesota .....	-213	-287	-294	-366	-90	213
Mississippi .....	-7,868	-8,061	-6,662	-2,502	-4,083	6,016
Missouri .....	-206	-240	-261	-1,319	296	384
Montana .....	-3,501	-3,261	-3,577	782	647	3,884
Nebraska .....	-1,346	-1,193	-1,924	-1,617	-303	802
New Jersey .....	0	0	0	0	0	0
New Mexico .....	363	811	48	21	519	2,200
New York .....	-12,585	-12,964	-12,079	-13,349	-2,711	8,971
North Carolina .....	0	0	0	0	0	0
Ohio .....	-29,581	-36,092	-37,165	-30,055	-8,729	29,225
Oklahoma .....	-14,973	-8,211	-10,949	-19,131	-4,435	14,679
Oregon .....	-509	-1,318	-1,365	-841	132	651
Pennsylvania .....	-52,038	-69,480	-62,061	-46,338	-22,497	43,459
Rhode Island .....	0	0	0	0	0	0
Tennessee .....	0	0	0	0	0	0
Texas .....	-18,108	-2,670	-13,902	-28,071	-22,764	43,870
Utah .....	-3,884	-6,821	-6,742	-5,533	-188	2,388
Virginia .....	0	0	0	0	0	0
Washington .....	-1,965	-935	-3,317	-1,973	-356	540
West Virginia .....	-19,913	-32,686	-29,535	-32,767	-16,242	26,887
Wyoming .....	-771	-2,160	-1,760	-2,704	-644	1,095
<b>Total .....</b>	<b>-345,894</b>	<b>-369,504</b>	<b>-375,133</b>	<b>-327,768</b>	<b>-114,544</b>	<b>322,623</b>

See footnotes at end of table.



**Table 12. Net Withdrawals from Underground Storage, by State, 1995-1997**

(Volumes in Million Cubic Feet) — Continued

State	1996		1995				
	February	January	Total	December	November	October	September
Alabama .....	17	54	73	400	189	73	-592
Arkansas .....	1,115	2,112	709	2,149	618	80	-157
California .....	25,693	47,924	-27,358	25,933	-1,980	-18,197	-15,258
Colorado .....	1,417	8,564	-3,152	5,194	-1,616	-1,296	-2,943
Connecticut .....	0	0	—	—	—	—	—
Illinois .....	40,993	67,753	22,981	51,971	18,278	-38,814	-39,267
Indiana .....	3,804	7,073	711	4,401	-844	-4,448	-4,766
Iowa .....	8,653	16,282	6,443	17,220	12,827	-7,844	-13,599
Kansas .....	6,590	26,627	4,875	16,419	7,352	-10,864	-16,412
Kentucky .....	12,179	14,407	7,178	11,394	9,279	-2,526	-6,766
Louisiana .....	23,235	43,064	52,753	46,245	24,216	-14,079	-23,381
Maryland .....	3,086	4,254	4,049	3,350	689	-1,123	-2,041
Michigan .....	83,725	132,197	117,409	115,938	66,298	-32,377	-52,235
Minnesota .....	250	748	104	245	2	-6	-241
Mississippi .....	3,023	7,713	7,783	6,445	9,486	-2,596	-6,289
Missouri .....	-97	1,428	-197	330	-165	-124	-463
Montana .....	3,443	6,220	3,599	5,251	3,048	554	-1,096
Nebraska .....	754	1,937	5,844	1,597	1,602	745	-385
New Jersey .....	0	0	—	—	—	—	—
New Mexico .....	1,614	1,370	2,273	1,527	1,120	-20	-505
New York .....	12,756	14,174	14,746	17,605	9,671	-1,689	-8,910
North Carolina .....	0	0	—	—	—	—	—
Ohio .....	33,937	44,205	38,862	43,090	24,176	-8,835	-18,579
Oklahoma .....	23,470	33,230	19,264	24,431	8,327	-13,868	-7,816
Oregon .....	940	1,252	-880	822	58	0	-486
Pennsylvania .....	64,167	80,122	63,786	78,025	45,269	-22,123	-44,608
Rhode Island .....	0	0	—	—	—	—	—
Tennessee .....	0	0	—	—	—	—	—
Texas .....	49,673	75,427	26,165	49,476	11,542	-9,871	-22,880
Utah .....	8,372	12,335	-118	9,829	-1,367	-528	-1,489
Virginia .....	0	0	—	—	—	—	—
Washington .....	769	6,047	-2,363	1,015	-67	100	-2,494
West Virginia .....	30,318	39,816	41,129	39,382	23,047	-14,545	-17,855
Wyoming .....	3,044	3,410	1,552	2,100	768	-1,125	-1,841
<b>Total .....</b>	<b>446,941</b>	<b>699,748</b>	<b>408,220</b>	<b>581,782</b>	<b>271,826</b>	<b>-205,344</b>	<b>-313,356</b>

<sup>R</sup> = Revised Data.

— = Not Applicable.

Notes: This table contains total net withdrawals for each State with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. Data for 1995 are final. All other data are preliminary at this time and are not considered final until publication of the *Natural Gas Annual* for that year.

Source: Form EIA-191, "Underground Natural Gas Storage Report."

**Table 13. Activities of Underground Natural Gas Storage Operators, by State,  
September 1997**

(Volumes in Million Cubic Feet)

State	Total Storage Capacity	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity	
		Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
Alabama .....	3,280	1,190	1,515	2,705	-376	-19.9	262	0
Arkansas .....	31,871	11,278	7,883	19,162	2,502	46.5	1,091	43
California .....	469,696	247,419	175,160	422,579	29,387	20.2	12,568	5,754
Colorado .....	99,600	47,902	37,977	85,879	4,638	13.9	5,551	410
Illinois .....	898,239	651,468	232,073	883,540	5,126	2.3	36,019	1,311
Indiana .....	113,210	73,777	30,496	104,273	-2,975	-8.9	4,654	51
Iowa .....	270,200	200,700	52,343	253,043	1,892	3.7	12,766	5
Kansas .....	298,666	191,074	85,480	276,554	7,478	9.6	14,921	1,243
Kentucky .....	219,908	109,097	93,205	202,303	-1,047	-1.1	8,296	313
Louisiana .....	559,473	269,707	177,976	447,682	-446	-0.3	28,362	6,251
Maryland .....	62,000	46,677	12,159	58,836	-1,251	-9.3	2,766	0
Michigan .....	1,052,236	428,847	538,693	967,540	16,450	3.2	65,123	602
Minnesota .....	7,000	4,623	2,381	7,004	86	3.8	130	0
Mississippi .....	134,012	77,260	49,304	126,564	-2,689	-5.2	6,397	1,122
Missouri .....	31,126	21,600	9,252	30,852	90	1.0	248	8
Montana .....	375,010	167,382	53,005	220,386	-15,594	-22.7	3,057	1,567
Nebraska .....	39,469	31,507	4,498	36,005	538	13.6	1,115	24
New Mexico .....	96,600	24,845	6,429	31,274	985	18.1	1,437	584
New York .....	173,979	103,540	66,221	169,761	-3,550	-5.1	7,423	797
Ohio .....	557,452	352,701	174,887	527,588	4,105	2.4	24,011	483
Oklahoma .....	395,087	233,763	97,595	331,358	66	0.1	17,359	2,925
Oregon .....	11,623	4,896	6,680	11,576	-286	-4.1	392	1
Pennsylvania .....	680,006	357,028	331,246	688,274	-9,238	-2.7	49,298	1,926
Texas .....	678,534	254,705	190,754	445,459	28,533	17.6	41,320	16,400
Utah .....	121,980	62,100	39,348	101,448	5,811	17.3	3,235	0
Washington .....	37,300	22,096	14,805	36,902	562	3.9	2,304	37
West Virginia .....	484,597	298,632	153,122	451,754	-5,928	-3.7	20,319	1,312
Wyoming .....	105,869	60,782	22,561	83,343	-2,804	-11.1	2,431	7
<b>Total .....</b>	<b>8,008,021</b>	<b>4,356,598</b>	<b>2,667,046</b>	<b>7,023,645</b>	<b>62,065</b>	<b>2.4</b>	<b>372,855</b>	<b>43,178</b>

Notes: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 14. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				August	July	June
Alabama .....	33,766	43,429	35,284	1,238	1,392	1,604
Alaska .....	8,973	10,463	10,072	402	463	508
Arizona .....	22,218	19,354	20,281	910	1,019	1,154
Arkansas .....	29,784	33,767	28,213	918	1,028	1,240
California .....	329,509	310,137	340,227	20,951	26,840	23,572
Colorado .....	NA	77,879	74,964	NA	NA	NA
Connecticut .....	27,910	31,569	28,471	903	949	1,380
Delaware .....	6,613	7,436	6,266	178	194	318
District of Columbia .....	11,026	12,654	11,012	372	419	562
Florida .....	9,854	12,296	10,354	742	785	856
Georgia .....	68,126	84,974	68,967	2,944	3,195	3,357
Hawaii .....	353	374	397	41	43	41
Idaho .....	10,490	10,137	8,959	294	346	433
Illinois .....	330,185	352,894	314,553	10,111	10,378	11,617
Indiana .....	115,256	123,812	105,368	2,989	<sup>R</sup> 2,852	4,958
Iowa .....	55,053	58,585	51,151	1,472	1,593	2,102
Kansas .....	51,797	56,405	50,194	1,616	1,862	1,660
Kentucky .....	42,104	46,626	40,132	1,077	1,419	1,572
Louisiana .....	36,255	43,005	36,923	1,671	1,685	2,050
Maine .....	663	646	586	26	21	34
Maryland .....	NA	NA	50,945	NA	NA	NA
Massachusetts .....	NA	82,786	74,150	2,437	2,831	4,370
Michigan .....	264,951	280,340	251,491	7,264	4,748	12,010
Minnesota .....	89,636	95,534	82,463	2,556	2,706	3,499
Mississippi .....	NA	22,868	19,316	NA	NA	920
Missouri .....	90,636	97,928	86,988	2,403	2,717	3,665
Montana .....	14,030	14,530	12,654	447	411	631
Nebraska .....	34,956	34,472	32,107	1,048	1,138	1,485
Nevada .....	17,550	15,527	15,486	777	887	981
New Hampshire .....	4,898	5,010	4,538	155	160	263
New Jersey .....	148,058	158,314	130,663	4,680	5,102	6,457
New Mexico .....	22,111	22,164	18,961	843	815	238
New York .....	NA	NA	263,020	NA	NA	NA
North Carolina .....	36,513	43,129	34,013	900	1,074	1,599
North Dakota .....	8,548	8,631	7,743	206	228	333
Ohio .....	239,993	258,102	232,234	6,202	7,533	9,785
Oklahoma .....	50,997	55,663	49,663	1,519	1,679	2,105
Oregon .....	23,176	22,695	19,681	670	836	1,029
Pennsylvania .....	178,844	195,772	173,425	4,714	<sup>R</sup> 5,153	7,583
Rhode Island .....	13,057	13,868	12,226	443	480	727
South Carolina .....	17,345	21,627	17,359	444	512	701
South Dakota .....	9,332	9,534	8,438	233	248	368
Tennessee .....	NA	51,120	40,332	1,080	1,119	NA
Texas .....	143,514	160,599	141,518	6,101	6,829	7,595
Utah .....	35,452	33,637	31,249	1,466	1,501	1,601
Vermont .....	1,895	1,857	1,629	52	57	97
Virginia .....	49,981	53,587	45,273	1,473	1,576	2,054
Washington .....	NA	42,176	35,613	NA	NA	3,055
West Virginia .....	23,628	26,528	23,706	594	488	961
Wisconsin .....	NA	NA	85,550	NA	2,751	NA
Wyoming .....	NA	NA	8,491	NA	NA	NA
<b>Total .....</b>	<b>3,405,231</b>	<b>3,620,033</b>	<b>3,253,299</b>	<b>119,117</b>	<b><sup>R</sup>130,634</b>	<b>160,461</b>

See footnotes at end of table.

**Table 14. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**

(Million Cubic Feet) — Continued

State	1997					1996
	May	April	March	February	January	Total
Alabama .....	2,638	3,180	5,326	9,098	9,290	56,522
Alaska .....	789	1,177	1,207	2,025	2,402	16,179
Arizona .....	1,571	2,259	4,235	5,092	5,978	27,709
Arkansas .....	2,324	3,293	4,942	7,754	8,285	46,289
California .....	28,707	39,271	48,377	66,688	75,103	473,310
Colorado .....	NA	8,929	NA	NA	NA	110,924
Connecticut .....	2,332	4,378	5,176	6,538	6,255	43,764
Delaware .....	557	942	1,265	1,612	1,549	9,791
District of Columbia .....	944	1,316	2,049	2,655	2,708	17,290
Florida .....	944	1,013	1,279	2,068	2,167	16,293
Georgia .....	3,834	8,221	9,001	16,024	21,550	127,062
Hawaii .....	42	41	46	49	51	540
Idaho .....	939	1,464	1,909	2,542	2,564	14,941
Illinois .....	26,081	41,192	61,416	69,338	100,053	538,749
Indiana .....	9,482	15,219	20,684	26,294	32,779	179,939
Iowa .....	3,938	6,971	9,528	11,881	17,568	88,078
Kansas .....	3,581	6,402	8,769	12,105	15,803	85,376
Kentucky .....	2,954	4,883	7,293	8,964	13,942	70,232
Louisiana .....	2,824	3,680	5,619	8,991	9,736	56,626
Maine .....	56	85	142	133	166	967
Maryland .....	NA	NA	NA	NA	NA	85,533
Massachusetts .....	6,917	12,122	15,127	17,654	NA	114,365
Michigan .....	26,958	38,256	51,299	57,545	66,871	399,522
Minnesota .....	6,775	11,435	16,959	19,966	25,740	142,319
Mississippi .....	1,463	1,904	3,038	4,968	5,050	30,157
Missouri .....	6,474	11,030	15,422	23,426	25,499	137,225
Montana .....	1,143	1,996	2,468	3,038	3,897	22,175
Nebraska .....	3,177	4,355	6,232	7,829	9,692	48,989
Nevada .....	1,419	2,018	3,172	3,825	4,470	22,607
New Hampshire .....	465	744	913	1,136	1,061	7,012
New Jersey .....	11,258	18,139	31,984	34,709	35,729	222,619
New Mexico .....	1,952	1,503	3,810	5,630	7,320	33,689
New York .....	NA	NA	NA	NA	NA	403,264
North Carolina .....	2,991	4,087	5,811	10,002	10,050	58,812
North Dakota .....	730	1,178	1,576	1,984	2,313	12,591
Ohio .....	21,575	33,023	44,153	52,497	65,225	374,824
Oklahoma .....	3,857	6,160	9,070	12,687	13,920	76,629
Oregon .....	1,920	3,206	4,350	5,308	5,857	33,236
Pennsylvania .....	15,446	25,130	33,537	41,287	45,992	278,606
Rhode Island .....	1,171	1,994	2,462	2,891	2,890	18,839
South Carolina .....	1,230	1,776	2,592	4,994	5,097	29,406
South Dakota .....	784	1,250	1,625	2,089	2,735	14,085
Tennessee .....	3,019	4,797	NA	12,086	12,795	70,423
Texas .....	10,420	14,025	22,686	33,154	42,706	229,318
Utah .....	1,821	4,875	5,945	8,366	9,876	54,344
Vermont .....	189	283	383	416	419	2,523
Virginia .....	4,227	6,662	9,123	11,741	13,126	76,214
Washington .....	5,591	4,586	8,132	9,377	10,885	62,689
West Virginia .....	2,246	3,421	4,318	5,630	5,969	37,390
Wisconsin .....	NA	NA	17,386	19,810	26,165	147,893
Wyoming .....	NA	NA	795	977	NA	13,534
<b>Total .....</b>	<b>285,520</b>	<b>433,624</b>	<b>603,553</b>	<b>765,486</b>	<b>906,836</b>	<b>5,241,414</b>

See footnotes at end of table.

**Table 14. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	December	November	October	September	August	July
Alabama .....	6,664	3,461	1,647	1,321	1,227	1,295
Alaska .....	2,181	1,708	1,238	589	544	493
Arizona .....	4,051	2,322	1,082	900	836	916
Arkansas .....	6,286	3,768	1,425	1,044	955	930
California .....	62,905	43,702	30,462	26,104	21,757	18,649
Colorado .....	15,814	9,571	4,886	2,773	2,505	2,869
Connecticut .....	5,842	3,522	1,840	992	954	1,088
Delaware .....	1,236	648	291	181	175	196
District of Columbia .....	2,406	1,252	578	401	380	412
Florida .....	1,583	972	752	690	658	741
Georgia .....	18,574	14,651	5,771	3,092	2,972	3,179
Hawaii .....	44	41	39	41	40	42
Idaho .....	2,224	1,570	646	364	277	300
Illinois .....	80,922	63,715	28,081	13,137	9,546	11,346
Indiana .....	26,087	18,577	7,846	3,617	3,117	3,201
Iowa .....	14,138	9,782	3,620	1,954	1,610	1,663
Kansas .....	14,388	9,447	3,163	1,973	1,640	1,836
Kentucky .....	10,177	9,022	3,018	1,389	1,253	1,108
Louisiana .....	6,173	3,511	2,102	1,836	1,831	1,820
Maine .....	120	105	67	28	23	25
Maryland .....	11,426	7,828	3,738	2,207	2,064	2,139
Massachusetts .....	13,947	9,943	5,012	2,677	2,463	2,814
Michigan .....	52,724	38,862	18,528	9,068	7,300	7,657
Minnesota .....	22,152	14,959	6,705	2,968	2,433	2,583
Mississippi .....	3,676	1,880	929	804	771	816
Missouri .....	20,539	11,687	4,321	2,749	2,448	2,688
Montana .....	3,286	2,458	1,267	634	431	462
Nebraska .....	7,283	4,043	2,173	1,017	932	985
Nevada .....	3,386	2,069	894	732	678	779
New Hampshire .....	855	667	312	169	155	159
New Jersey .....	29,983	18,933	9,917	5,472	4,715	5,103
New Mexico .....	5,663	3,689	1,330	844	836	1,623
New York .....	NA	NA	NA	NA	NA	10,129
North Carolina .....	8,607	4,461	1,701	913	862	889
North Dakota .....	1,894	1,256	554	256	209	212
Ohio .....	52,480	38,565	18,651	7,026	6,306	7,210
Oklahoma .....	11,298	5,722	2,267	1,679	1,515	1,628
Oregon .....	5,200	3,164	1,357	821	673	839
Pennsylvania .....	36,688	27,037	13,202	5,907	5,295	5,688
Rhode Island .....	2,350	1,416	738	467	450	484
South Carolina .....	4,336	2,168	800	476	419	425
South Dakota .....	2,243	1,414	578	316	231	239
Tennessee .....	10,177	5,949	1,987	1,190	1,101	1,166
Texas .....	33,952	17,793	9,479	7,495	6,534	7,216
Utah .....	8,203	5,749	4,215	2,540	1,416	1,533
Vermont .....	302	208	100	56	47	51
Virginia .....	10,946	7,388	2,879	1,414	1,424	1,502
Washington .....	9,804	6,207	2,930	1,572	1,250	1,628
West Virginia .....	5,166	3,391	1,609	696	537	590
Wisconsin .....	21,285	16,724	7,783	3,130	2,726	2,753
Wyoming .....	1,744	1,334	1,087	368	265	273
<b>Total</b> .....	<b>737,722</b>	<b>502,981</b>	<b>243,121</b>	<b>137,556</b>	<b>118,296</b>	<b>124,371</b>

See footnotes at end of table.

**Table 14. Natural Gas Deliveries to Residential Consumers, by State, 1995-1997**

(Million Cubic Feet) — Continued

State	1996					
	June	May	April	March	February	January
Alabama .....	1,472	2,948	6,321	8,051	11,222	10,893
Alaska .....	647	964	1,424	1,918	2,419	2,054
Arizona .....	1,089	1,328	2,155	3,366	4,221	5,443
Arkansas .....	1,202	1,967	4,846	6,146	8,713	9,008
California .....	25,996	30,001	36,723	52,226	58,007	66,779
Colorado .....	4,316	6,901	11,526	14,685	17,480	17,597
Connecticut .....	1,274	2,303	4,399	6,245	7,147	8,159
Delaware .....	310	516	1,116	1,504	1,918	1,701
District of Columbia .....	582	807	1,712	2,376	3,083	3,302
Florida .....	786	1,016	1,640	2,058	2,570	2,828
Georgia .....	3,115	4,272	9,875	17,871	19,358	24,332
Hawaii .....	45	44	49	53	51	49
Idaho .....	542	976	1,315	1,847	2,510	2,369
Illinois .....	12,437	27,063	43,288	71,599	81,430	96,184
Indiana .....	4,513	8,919	16,823	24,978	28,907	33,354
Iowa .....	2,343	4,187	6,945	11,830	13,725	16,281
Kansas .....	1,734	3,054	6,313	11,170	13,787	16,870
Kentucky .....	1,335	2,255	5,565	10,254	11,218	13,638
Louisiana .....	1,977	2,562	5,158	7,507	10,284	11,865
Maine .....	29	49	81	137	143	159
Maryland .....	2,709	4,136	7,257	11,806	14,280	15,942
Massachusetts .....	3,930	7,569	11,564	16,533	18,453	19,459
Michigan .....	10,619	24,645	40,288	57,657	63,693	68,480
Minnesota .....	3,708	7,335	12,254	19,126	22,665	25,430
Mississippi .....	839	1,366	3,174	3,851	5,900	6,151
Missouri .....	3,404	6,252	13,133	18,852	24,498	26,654
Montana .....	745	1,400	2,028	2,649	3,530	3,284
Nebraska .....	1,475	2,651	4,786	6,609	8,807	8,226
Nevada .....	1,011	1,264	1,884	2,903	3,264	3,744
New Hampshire .....	233	426	698	998	1,147	1,193
New Jersey .....	6,412	11,915	20,410	31,467	36,979	41,314
New Mexico .....	1,701	610	2,586	3,085	4,620	7,103
New York .....	14,186	25,231	41,232	57,763	61,203	68,033
North Carolina .....	1,210	2,131	6,189	7,391	11,718	12,737
North Dakota .....	356	736	1,320	1,764	2,079	1,955
Ohio .....	10,315	17,670	34,510	54,228	58,620	69,244
Oklahoma .....	1,989	3,321	7,697	10,164	14,497	14,851
Oregon .....	1,386	2,300	2,821	4,042	5,586	5,047
Pennsylvania .....	7,575	13,490	25,624	40,492	46,086	51,522
Rhode Island .....	692	1,216	1,901	2,664	3,119	3,342
South Carolina .....	547	954	2,996	3,741	5,943	6,602
South Dakota .....	464	803	1,367	1,865	2,221	2,343
Tennessee .....	1,327	2,355	7,058	9,516	13,801	14,796
Texas .....	7,819	9,574	19,123	28,242	35,808	46,282
Utah .....	1,351	2,252	4,540	5,419	8,571	8,555
Vermont .....	85	167	268	354	418	467
Virginia .....	2,088	2,536	6,501	11,185	13,709	14,643
Washington .....	2,610	4,456	5,418	7,642	10,162	9,011
West Virginia .....	817	1,652	3,877	5,495	6,602	6,958
Wisconsin .....	4,415	8,015	12,774	20,320	22,563	25,405
Wyoming .....	510	922	1,292	1,562	2,176	2,001
<b>Total</b> .....	<b>162,277</b>	<b>271,486</b>	<b>473,842</b>	<b>705,207</b>	<b>830,912</b>	<b>933,642</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 15. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				August	July	June
Alabama .....	23,477	21,278	18,088	3,087	3,497	1,779
Alaska .....	14,549	17,383	16,116	1,125	1,167	1,191
Arizona .....	20,926	19,838	19,998	1,770	1,939	1,976
Arkansas .....	20,311	22,206	18,590	1,132	1,133	1,219
California .....	168,890	152,648	189,128	18,728	17,971	16,572
Colorado .....	NA	48,546	47,658	NA	NA	NA
Connecticut .....	28,211	27,551	26,968	1,754	1,895	1,986
Delaware .....	4,647	4,871	4,060	183	206	281
District of Columbia .....	11,636	11,249	12,166	853	783	951
Florida .....	25,359	29,005	27,672	2,651	2,578	2,917
Georgia .....	36,873	42,454	36,939	2,626	2,709	2,800
Hawaii .....	1,401	1,455	1,486	160	175	170
Idaho .....	7,800	7,759	7,080	356	373	399
Illinois .....	136,254	141,198	131,796	5,935	6,084	6,145
Indiana .....	67,883	59,650	53,750	2,551	<sup>R</sup> 2,428	6,344
Iowa .....	32,982	36,138	31,481	1,110	1,306	1,262
Kansas .....	33,407	39,832	33,382	1,865	1,957	1,451
Kentucky .....	24,909	27,206	24,300	967	1,176	1,181
Louisiana .....	18,148	18,932	16,660	1,195	1,350	1,408
Maine .....	1,783	1,727	1,568	78	72	92
Maryland .....	NA	NA	30,494	NA	NA	NA
Massachusetts .....	73,124	64,517	55,528	5,776	5,555	7,151
Michigan .....	134,933	140,163	128,350	5,889	2,278	7,664
Minnesota .....	62,520	64,426	57,561	2,522	2,496	3,004
Mississippi .....	NA	16,095	13,548	NA	NA	1,176
Missouri .....	49,369	51,268	44,765	2,054	2,151	2,457
Montana .....	9,411	9,694	8,716	383	363	451
Nebraska .....	NA	NA	18,214	NA	NA	1,468
Nevada .....	14,996	13,802	13,228	1,145	1,097	1,409
New Hampshire .....	5,036	4,944	4,423	217	216	286
New Jersey .....	100,026	105,411	95,224	5,793	6,094	7,027
New Mexico .....	17,592	18,019	16,342	997	984	960
New York .....	NA	NA	154,705	NA	NA	NA
North Carolina .....	26,036	28,491	25,485	1,629	1,548	1,770
North Dakota .....	7,923	8,067	7,829	291	305	343
Ohio .....	121,740	132,798	116,322	3,557	3,288	5,204
Oklahoma .....	30,928	33,206	27,717	1,626	1,649	1,517
Oregon .....	17,637	17,359	15,427	912	1,007	1,067
Pennsylvania .....	97,350	104,740	90,429	3,779	<sup>R</sup> 4,680	5,554
Rhode Island .....	8,581	8,806	8,451	399	431	537
South Carolina .....	13,191	14,039	12,682	1,019	997	1,214
South Dakota .....	7,210	7,626	7,093	250	246	283
Tennessee .....	NA	40,598	34,061	2,064	2,090	NA
Texas .....	NA	NA	145,864	15,234	15,315	11,993
Utah .....	19,647	18,787	17,503	943	927	946
Vermont .....	2,074	1,949	1,795	80	80	108
Virginia .....	41,546	40,233	38,061	2,449	2,370	2,681
Washington .....	NA	32,406	29,077	NA	NA	2,917
West Virginia .....	17,805	19,340	16,892	1,292	1,044	1,181
Wisconsin .....	NA	62,349	52,484	NA	2,568	NA
Wyoming .....	NA	NA	7,220	NA	NA	NA
<b>Total .....</b>	<b>2,152,435</b>	<b>2,158,790</b>	<b>2,014,375</b>	<b>134,071</b>	<b><sup>R</sup>131,853</b>	<b>147,250</b>

See footnotes at end of table.

**Table 15. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**

(Million Cubic Feet) — Continued

State	1997					1996
	May	April	March	February	January	Total
Alabama .....	2,020	2,194	2,613	4,063	4,224	29,002
Alaska .....	1,546	1,914	2,075	2,488	3,042	27,315
Arizona .....	2,141	2,563	3,153	3,525	3,858	29,102
Arkansas .....	1,653	2,172	3,149	4,730	5,123	31,009
California .....	18,994	21,091	23,612	26,107	25,816	236,332
Colorado .....	NA	6,121	NA	NA	NA	68,931
Connecticut .....	2,586	4,055	4,797	5,346	5,792	39,818
Delaware .....	420	628	858	1,046	1,025	6,695
District of Columbia .....	1,373	842	2,183	2,316	2,335	16,353
Florida .....	2,902	3,017	3,307	3,862	4,126	41,898
Georgia .....	3,216	4,152	4,864	7,924	8,582	61,377
Hawaii .....	166	174	180	188	188	2,132
Idaho .....	686	1,041	1,345	1,784	1,816	11,540
Illinois .....	10,664	16,797	23,444	30,059	37,125	218,086
Indiana .....	9,965	7,610	10,465	12,807	15,715	87,568
Iowa .....	2,376	3,976	5,758	7,056	10,137	54,576
Kansas .....	2,798	4,004	6,012	8,130	7,190	57,231
Kentucky .....	1,890	2,913	4,093	5,483	7,206	40,980
Louisiana .....	1,492	1,837	3,313	3,574	3,979	25,769
Maine .....	152	231	378	348	433	2,566
Maryland .....	NA	NA	NA	NA	NA	45,891
Massachusetts .....	6,266	9,068	11,630	13,854	13,824	96,192
Michigan .....	13,205	19,207	25,654	28,433	32,603	201,431
Minnesota .....	5,155	8,361	12,000	13,403	15,580	98,580
Mississippi .....	1,237	1,533	2,106	3,062	3,226	22,230
Missouri .....	3,569	5,786	7,970	12,828	12,556	72,833
Montana .....	714	1,342	1,652	1,947	2,558	14,836
Nebraska .....	NA	NA	4,117	8,099	5,907	40,833
Nevada .....	1,666	1,896	2,442	2,629	2,711	20,469
New Hampshire .....	472	739	954	1,079	1,073	7,099
New Jersey .....	9,816	13,645	21,543	14,211	21,897	150,432
New Mexico .....	1,766	1,862	2,935	3,938	4,151	26,544
New York .....	NA	NA	NA	NA	NA	253,129
North Carolina .....	2,401	2,973	3,806	5,850	6,059	40,467
North Dakota .....	619	1,095	1,408	1,879	1,982	12,165
Ohio .....	11,339	15,190	23,205	28,174	31,783	190,195
Oklahoma .....	2,617	3,571	5,041	7,183	7,724	46,284
Oregon .....	1,574	2,304	3,076	3,686	4,011	25,622
Pennsylvania .....	10,354	13,007	17,888	19,583	22,506	154,677
Rhode Island .....	892	1,144	1,740	1,744	1,694	12,301
South Carolina .....	1,278	1,379	1,816	2,689	2,799	20,329
South Dakota .....	604	940	1,235	1,607	2,045	11,602
Tennessee .....	3,242	4,276	NA	9,488	9,084	58,513
Texas .....	NA	13,790	NA	21,368	27,444	178,573
Utah .....	1,268	2,675	3,363	4,473	5,051	29,666
Vermont .....	160	296	429	444	477	2,825
Virginia .....	4,381	5,762	7,212	8,021	8,670	59,294
Washington .....	4,098	4,100	5,627	6,275	7,474	48,252
West Virginia .....	1,693	2,222	2,816	3,652	3,903	28,030
Wisconsin .....	NA	NA	11,297	12,587	16,141	93,868
Wyoming .....	NA	NA	1,001	928	999	9,735
<b>Total .....</b>	<b>206,886</b>	<b>267,759</b>	<b>358,590</b>	<b>426,624</b>	<b>479,403</b>	<b>3,161,176</b>

See footnotes at end of table.



**Table 15. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	December	November	October	September	August	July
Alabama .....	3,123	1,991	1,402	1,207	1,133	1,169
Alaska .....	3,236	2,743	2,337	1,617	1,396	1,337
Arizona .....	3,259	2,461	1,748	1,680	1,753	1,779
Arkansas .....	3,876	2,462	1,356	1,106	1,060	1,056
California .....	24,836	21,313	18,727	17,544	17,540	17,155
Colorado .....	9,028	5,807	3,306	2,227	2,156	2,406
Connecticut .....	4,902	3,112	2,400	1,822	1,714	1,969
Delaware .....	821	502	277	223	203	202
District of Columbia .....	2,325	1,195	804	774	750	878
Florida .....	3,830	3,179	2,957	2,840	2,716	2,836
Georgia .....	7,462	5,450	3,339	2,673	2,594	2,737
Hawaii .....	176	160	170	171	166	176
Idaho .....	1,621	1,107	597	421	354	346
Illinois .....	32,425	25,216	12,090	7,125	5,314	5,426
Indiana .....	12,378	9,122	4,102	2,202	2,104	2,111
Iowa .....	8,510	5,896	2,101	1,926	1,080	1,212
Kansas .....	9,187	4,867	2,057	1,286	3,505	3,341
Kentucky .....	5,892	4,439	2,241	1,194	1,123	1,033
Louisiana .....	2,435	1,680	1,395	1,305	1,321	1,268
Maine .....	310	280	172	78	75	74
Maryland .....	5,433	4,693	2,427	1,922	1,866	1,608
Massachusetts .....	11,752	9,718	5,432	4,767	4,274	3,751
Michigan .....	26,123	19,486	9,472	6,146	5,383	5,673
Minnesota .....	15,009	10,756	5,479	2,867	2,254	2,377
Mississippi .....	2,333	1,631	1,088	1,078	1,198	1,156
Missouri .....	10,204	6,136	2,959	2,235	2,356	2,289
Montana .....	2,123	1,659	848	498	374	386
Nebraska .....	5,032	3,678	2,778	2,273	2,489	3,544
Nevada .....	2,417	1,817	1,269	1,116	1,062	1,145
New Hampshire .....	896	698	360	201	193	180
New Jersey .....	18,834	12,586	7,731	5,870	5,536	5,807
New Mexico .....	3,553	2,450	1,365	1,079	1,352	1,429
New York .....	NA	NA	NA	NA	NA	NA
North Carolina .....	5,160	3,240	1,917	1,658	1,575	1,415
North Dakota .....	1,726	1,286	661	410	301	271
Ohio .....	26,298	18,274	8,548	4,048	4,401	4,569
Oklahoma .....	6,014	3,273	1,900	1,759	1,678	1,798
Oregon .....	3,595	2,314	1,306	1,023	905	967
Pennsylvania .....	22,333	15,107	8,161	4,302	4,365	4,348
Rhode Island .....	1,290	972	648	581	443	421
South Carolina .....	2,447	1,644	1,157	1,041	957	940
South Dakota .....	1,813	1,237	571	352	283	288
Tennessee .....	7,599	5,116	2,830	2,354	1,979	1,962
Texas .....	18,053	12,865	NA	8,830	12,079	12,459
Utah .....	4,220	3,185	2,073	1,279	874	904
Vermont .....	348	276	162	90	69	67
Virginia .....	7,489	5,776	3,363	2,401	2,081	2,517
Washington .....	6,623	4,489	2,701	1,920	1,697	1,857
West Virginia .....	3,400	2,494	1,620	1,171	1,259	1,317
Wisconsin .....	13,368	11,029	4,694	2,376	2,294	2,037
Wyoming .....	1,748	1,301	640	250	197	197
<b>Total .....</b>	<b>409,165</b>	<b>294,522</b>	<b>171,277</b>	<b>124,490</b>	<b>122,985</b>	<b>125,522</b>

See footnotes at end of table.

**Table 15. Natural Gas Deliveries to Commercial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	June	May	April	March	February	January
Alabama .....	1,234	1,716	2,881	3,735	4,849	4,561
Alaska .....	1,458	1,789	2,364	2,748	3,227	3,064
Arizona .....	1,987	2,110	2,532	2,984	3,107	3,587
Arkansas .....	1,052	1,519	2,964	3,895	5,249	5,411
California .....	15,772	16,348	17,358	21,723	23,098	23,655
Colorado .....	3,052	4,424	6,977	8,873	10,325	10,333
Connecticut .....	1,747	2,255	3,535	4,851	5,480	5,999
Delaware .....	245	365	691	885	1,181	1,099
District of Columbia .....	824	1,233	1,925	1,551	1,942	2,147
Florida .....	3,029	3,336	3,918	4,167	4,272	4,731
Georgia .....	2,508	3,297	5,425	7,564	8,514	9,815
Hawaii .....	176	172	190	184	192	200
Idaho .....	477	710	996	1,359	1,783	1,734
Illinois .....	5,695	9,659	17,937	27,306	33,140	36,723
Indiana .....	2,464	4,195	7,791	11,697	13,698	15,590
Iowa .....	1,664	2,734	4,783	7,103	8,342	9,219
Kansas .....	1,916	3,017	4,820	6,592	7,823	8,819
Kentucky .....	1,057	1,509	3,305	5,586	6,319	7,275
Louisiana .....	1,477	1,618	2,384	3,016	3,848	4,000
Maine .....	82	132	208	356	386	413
Maryland .....	1,816	2,672	3,766	5,476	6,515	7,648
Massachusetts .....	4,176	6,555	8,955	11,148	12,641	13,018
Michigan .....	6,343	12,272	19,664	27,914	30,447	32,468
Minnesota .....	3,072	5,383	8,798	12,931	13,918	15,692
Mississippi .....	1,069	1,256	1,987	2,558	3,345	3,525
Missouri .....	2,380	3,563	6,625	9,501	11,673	12,881
Montana .....	509	862	1,332	1,763	2,281	2,188
Nebraska .....	1,460	1,995	3,099	4,257	4,846	5,382
Nevada .....	1,286	1,454	1,811	2,268	2,309	2,466
New Hampshire .....	244	402	661	972	1,129	1,163
New Jersey .....	6,280	8,824	14,789	18,891	22,251	23,033
New Mexico .....	1,592	1,410	2,433	2,509	3,291	4,002
New York .....	NA	NA	NA	NA	NA	NA
North Carolina .....	1,586	1,970	3,760	4,851	6,421	6,913
North Dakota .....	348	677	1,142	1,713	1,769	1,845
Ohio .....	7,661	8,960	16,833	26,650	29,732	33,993
Oklahoma .....	1,770	2,222	4,413	5,595	7,923	7,808
Oregon .....	1,304	1,786	2,059	2,900	3,907	3,531
Pennsylvania .....	5,199	7,729	13,276	20,748	23,162	25,912
Rhode Island .....	446	757	1,251	1,606	1,919	1,963
South Carolina .....	997	1,154	1,884	2,190	2,782	3,136
South Dakota .....	385	619	1,059	1,487	1,685	1,820
Tennessee .....	2,145	2,682	5,317	7,255	9,287	9,972
Texas .....	12,257	14,205	17,134	20,685	17,619	22,213
Utah .....	892	1,356	2,479	3,129	4,604	4,549
Vermont .....	97	153	279	381	445	458
Virginia .....	2,928	3,465	5,137	7,357	8,172	8,575
Washington .....	2,672	3,434	4,147	5,450	6,833	6,316
West Virginia .....	1,062	1,511	2,457	3,393	3,959	4,383
Wisconsin .....	2,796	5,017	8,140	12,243	13,981	15,841
Wyoming .....	342	712	925	1,030	1,203	1,176
<b>Total .....</b>	<b>133,356</b>	<b>182,859</b>	<b>283,635</b>	<b>387,264</b>	<b>442,962</b>	<b>480,207</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1996 may not equal the sum of the twelve months. Gas volumes delivered for use as vehicle fuel are included in the annual total but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 16. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				August	July	June
Alabama .....	136,153	132,637	136,210	16,827	16,848	16,253
Alaska .....	50,870	49,423	45,248	6,395	5,968	5,915
Arizona .....	17,168	17,398	18,740	2,375	2,246	2,170
Arkansas .....	97,588	93,747	91,989	11,994	11,785	11,598
California .....	479,774	457,926	455,839	67,815	65,810	58,874
Colorado .....	NA	NA	51,429	NA	NA	NA
Connecticut .....	23,251	20,356	22,202	2,550	2,440	2,441
Delaware .....	9,625	9,360	13,141	1,017	1,106	1,156
District of Columbia .....	0	0	0	0	0	0
Florida .....	96,065	91,652	86,909	11,529	12,164	11,539
Georgia .....	120,047	119,281	120,147	13,575	12,874	12,448
Hawaii .....	0	0	0	0	0	0
Idaho <sup>a</sup> .....	22,839	23,114	22,374	2,371	2,723	2,724
Illinois .....	211,382	211,401	206,417	20,706	22,431	22,272
Indiana .....	182,648	195,200	183,628	20,475	<sup>R</sup> 19,853	17,289
Iowa .....	72,191	74,957	74,246	8,680	7,768	7,823
Kansas .....	74,515	75,570	87,254	7,997	11,606	8,283
Kentucky .....	63,601	61,986	59,852	7,079	6,526	6,669
Louisiana .....	NA	695,450	702,207	84,275	NA	81,658
Maine .....	1,562	1,360	1,228	191	178	197
Maryland .....	NA	32,835	33,904	NA	NA	NA
Massachusetts .....	75,504	64,582	73,719	8,946	8,930	10,487
Michigan .....	219,003	234,985	218,448	23,705	16,029	25,327
Minnesota .....	67,013	64,957	69,569	7,771	6,780	7,681
Mississippi .....	NA	54,082	57,351	NA	NA	6,054
Missouri .....	47,436	49,364	45,324	4,338	4,492	4,810
Montana .....	11,306	11,514	11,601	1,253	1,093	1,176
Nebraska .....	20,378	23,557	30,079	2,524	986	2,116
Nevada .....	20,727	21,765	20,313	2,675	2,517	2,519
New Hampshire .....	4,236	3,120	3,042	451	422	434
New Jersey .....	136,664	126,549	140,095	17,715	16,450	15,822
New Mexico .....	16,824	15,260	13,822	1,957	2,097	2,041
New York .....	NA	213,722	185,191	NA	NA	NA
North Carolina .....	77,701	65,968	70,614	9,696	9,102	9,195
North Dakota .....	7,635	4,795	4,317	817	473	707
Ohio .....	222,324	233,369	219,511	24,078	22,725	22,461
Oklahoma .....	141,358	132,458	131,079	17,620	16,618	17,536
Oregon .....	55,167	54,119	45,245	8,313	7,289	5,557
Pennsylvania .....	157,657	162,821	166,289	17,206	15,131	16,359
Rhode Island .....	17,194	14,174	23,347	1,491	2,159	2,265
South Carolina .....	79,605	61,330	66,771	11,873	15,542	8,451
South Dakota .....	4,841	4,823	4,486	499	322	492
Tennessee .....	NA	80,974	82,479	13,153	10,831	NA
Texas .....	1,366,851	NA	1,255,715	172,857	166,725	165,999
Utah .....	28,933	27,829	28,677	3,369	3,482	3,408
Vermont .....	1,476	1,226	1,387	157	144	146
Virginia .....	57,485	55,859	64,665	8,927	8,064	5,864
Washington .....	NA	72,797	71,561	NA	NA	8,005
West Virginia .....	33,970	32,230	34,210	4,106	3,991	3,905
Wisconsin .....	NA	97,652	94,519	10,528	10,056	NA
Wyoming .....	NA	NA	31,365	NA	NA	NA
<b>Total .....</b>	<b>5,848,251</b>	<b>5,856,507</b>	<b>5,677,754</b>	<b>716,314</b>	<b><sup>R</sup>691,045</b>	<b>679,699</b>

See footnotes at end of table.

**Table 16. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					1996
	May	April	March	February	January	Total
Alabama .....	17,284	18,182	16,885	16,341	17,534	201,414
Alaska .....	5,619	6,443	6,993	6,448	7,090	75,616
Arizona .....	2,332	1,989	2,071	1,944	2,041	26,979
Arkansas .....	11,903	12,008	12,361	12,195	13,744	141,300
California .....	58,119	57,480	57,065	55,756	58,855	693,539
Colorado .....	NA	6,831	NA	NA	NA	83,640
Connecticut .....	2,870	3,308	3,521	3,031	3,088	32,451
Delaware .....	1,308	1,354	1,249	1,192	1,243	14,164
District of Columbia .....	0	0	0	0	0	0
Florida .....	12,515	12,365	11,905	11,527	12,521	136,722
Georgia .....	16,828	16,740	16,153	16,385	15,044	181,768
Hawaii .....	0	0	0	0	0	0
Idaho <sup>a</sup> .....	2,673	3,180	3,200	2,802	3,166	34,577
Illinois .....	25,139	26,550	29,761	31,673	32,850	322,275
Indiana .....	19,839	23,608	26,703	25,597	29,284	289,219
Iowa .....	8,516	9,081	9,800	9,785	10,738	113,995
Kansas .....	8,904	8,519	9,297	8,058	11,851	110,294
Kentucky .....	7,704	7,769	8,408	8,964	10,483	94,481
Louisiana .....	82,682	81,401	76,376	NA	83,077	1,048,432
Maine .....	226	247	182	162	180	2,190
Maryland .....	NA	NA	NA	NA	NA	50,022
Massachusetts .....	8,389	10,392	10,520	10,375	7,465	100,015
Michigan .....	27,343	27,854	32,629	32,134	33,982	347,043
Minnesota .....	7,566	8,338	9,333	10,082	9,463	102,471
Mississippi .....	5,804	6,535	6,721	6,686	7,337	80,887
Missouri .....	4,987	7,149	5,099	9,463	7,097	71,533
Montana .....	1,365	1,178	1,695	1,634	1,913	18,103
Nebraska .....	2,465	3,051	3,167	3,090	2,979	36,125
Nevada .....	2,791	2,424	2,665	2,462	2,675	32,606
New Hampshire .....	905	632	570	411	411	4,916
New Jersey .....	16,773	16,587	18,406	15,694	19,217	200,933
New Mexico .....	2,123	1,935	1,944	2,119	2,608	22,858
New York .....	NA	NA	NA	NA	NA	322,661
North Carolina .....	9,687	10,561	10,341	9,950	9,168	104,124
North Dakota .....	911	867	1,574	1,253	1,033	7,911
Ohio .....	26,644	27,049	30,688	32,631	36,048	347,149
Oklahoma .....	17,339	17,335	17,207	18,790	18,914	201,024
Oregon .....	6,033	6,322	6,726	6,525	8,402	87,754
Pennsylvania .....	18,780	21,556	22,001	23,241	23,384	243,499
Rhode Island .....	2,401	2,514	2,241	1,993	2,131	25,829
South Carolina .....	9,122	9,260	9,152	8,054	8,152	95,493
South Dakota .....	531	624	705	792	877	7,182
Tennessee .....	11,767	12,548	NA	12,789	11,698	126,545
Texas .....	166,759	164,032	182,742	160,683	187,054	2,138,155
Utah .....	3,633	3,757	3,777	3,698	3,809	42,213
Vermont .....	218	200	234	197	181	1,953
Virginia .....	7,452	6,449	4,162	8,056	8,513	84,357
Washington .....	8,513	8,189	9,259	9,170	9,112	114,236
West Virginia .....	4,439	6,731	2,577	3,836	4,386	49,997
Wisconsin .....	11,889	NA	15,238	14,667	17,601	149,517
Wyoming .....	NA	NA	NA	NA	NA	50,253
<b>Total .....</b>	<b>713,265</b>	<b>732,084</b>	<b>763,274</b>	<b>746,845</b>	<b>805,725</b>	<b>8,870,422</b>

See footnotes at end of table.

**Table 16. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	December	November	October	September	August	July
Alabama .....	17,016	16,951	18,097	16,712	15,966	16,304
Alaska .....	7,034	6,450	6,421	6,288	6,961	6,577
Arizona .....	2,536	2,436	2,363	2,246	2,125	2,175
Arkansas .....	12,552	12,171	12,008	10,821	11,492	11,423
California .....	61,618	59,107	57,199	57,688	62,705	58,086
Colorado .....	7,861	7,271	5,109	6,270	7,792	7,657
Connecticut .....	3,013	3,386	3,108	2,589	2,561	2,311
Delaware .....	1,148	1,180	1,338	1,138	1,116	1,122
District of Columbia .....	0	0	0	0	0	0
Florida .....	11,160	11,655	10,931	11,324	11,135	11,167
Georgia .....	15,926	15,856	15,569	15,136	15,887	13,599
Hawaii .....	0	0	0	0	0	0
Idaho <sup>a</sup> .....	2,891	2,747	3,023	2,802	2,409	2,697
Illinois .....	35,802	30,672	24,666	19,734	20,575	18,553
Indiana .....	25,886	24,549	23,056	20,528	19,795	20,302
Iowa .....	10,955	11,178	9,460	7,445	8,696	8,238
Kansas .....	9,372	9,897	7,314	8,141	9,817	9,579
Kentucky .....	9,646	8,705	7,555	6,589	6,259	6,006
Louisiana .....	86,865	NA	NA	87,576	87,989	87,008
Maine .....	171	234	239	185	177	144
Maryland .....	4,956	3,981	4,196	4,055	4,335	4,202
Massachusetts .....	9,252	8,643	9,419	8,119	9,040	7,437
Michigan .....	32,754	29,990	25,126	24,187	23,728	24,101
Minnesota .....	9,903	10,656	9,236	7,719	7,451	7,596
Mississippi .....	6,503	6,507	7,363	6,432	6,200	6,446
Missouri .....	6,510	6,157	4,963	4,540	5,883	4,219
Montana .....	1,985	1,668	1,554	1,382	1,429	1,267
Nebraska .....	3,689	3,179	3,248	2,452	2,467	2,479
Nevada .....	2,859	2,705	2,548	2,728	2,787	2,862
New Hampshire .....	404	529	471	392	393	371
New Jersey .....	27,230	17,727	14,853	14,574	11,728	16,131
New Mexico .....	2,173	1,875	1,799	1,751	1,774	1,801
New York .....	31,374	26,765	25,488	25,312	26,927	25,513
North Carolina .....	9,413	9,964	10,368	8,412	8,358	8,237
North Dakota .....	924	955	685	552	425	401
Ohio .....	33,111	30,242	27,432	22,996	23,427	22,090
Oklahoma .....	19,194	15,941	16,689	16,741	17,073	16,822
Oregon .....	8,498	8,526	8,657	7,954	7,886	7,326
Pennsylvania .....	21,089	22,617	19,275	17,697	18,213	16,820
Rhode Island .....	2,553	2,992	3,189	2,921	2,998	1,684
South Carolina .....	8,646	8,699	8,836	7,982	8,162	7,955
South Dakota .....	715	694	523	427	471	461
Tennessee .....	12,264	12,388	10,679	10,240	9,810	9,723
Texas .....	181,384	171,353	181,999	186,067	171,985	163,216
Utah .....	3,693	3,663	3,592	3,436	3,374	3,253
Vermont .....	191	211	174	151	155	107
Virginia .....	9,782	7,474	6,080	5,162	7,113	6,792
Washington .....	9,758	10,859	10,660	10,161	9,892	8,911
West Virginia .....	4,443	4,418	4,310	4,596	3,932	3,912
Wisconsin .....	15,456	14,652	11,984	9,773	9,274	8,609
Wyoming .....	4,647	4,741	4,678	3,699	3,851	3,568
<b>Total</b> .....	<b>806,805</b>	<b>764,387</b>	<b>736,900</b>	<b>705,823</b>	<b>703,997</b>	<b>677,260</b>

See footnotes at end of table.

**Table 16. Natural Gas Deliveries to Industrial Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	June	May	April	March	February	January
Alabama .....	15,508	16,367	16,867	17,001	16,916	17,708
Alaska .....	6,268	5,808	6,123	6,764	6,115	4,807
Arizona .....	2,126	1,640	2,330	2,403	2,150	2,448
Arkansas .....	11,344	10,729	11,412	12,152	12,114	13,081
California .....	52,431	58,146	56,490	53,746	56,969	59,353
Colorado .....	5,366	5,700	7,856	7,559	9,380	5,821
Connecticut .....	2,438	2,423	2,778	2,989	2,731	2,125
Delaware .....	1,303	1,206	1,046	1,314	1,082	1,170
District of Columbia .....	0	0	0	0	0	0
Florida .....	10,635	12,532	11,288	11,402	10,691	12,804
Georgia .....	14,461	15,625	15,871	15,818	12,677	15,342
Hawaii .....	0	0	0	0	0	0
Idaho <sup>a</sup> .....	2,699	2,850	2,856	3,207	3,062	3,335
Illinois .....	20,876	24,750	26,670	31,101	31,953	36,923
Indiana .....	42,381	8,491	23,219	26,554	25,931	28,526
Iowa .....	8,322	9,074	9,594	10,302	9,621	11,111
Kansas .....	9,392	8,177	9,070	9,649	9,534	10,352
Kentucky .....	8,486	6,325	7,365	8,704	8,459	10,382
Louisiana .....	90,218	87,124	86,136	89,479	81,114	86,382
Maine .....	186	181	155	182	164	171
Maryland .....	3,918	4,016	4,940	4,643	3,226	3,554
Massachusetts .....	7,365	6,897	8,263	8,737	7,953	8,890
Michigan .....	25,308	27,715	30,370	34,729	34,973	34,062
Minnesota .....	7,500	7,602	8,293	8,985	8,237	9,293
Mississippi .....	6,233	6,383	6,796	7,165	6,956	7,903
Missouri .....	4,744	5,645	6,518	7,064	7,267	8,024
Montana .....	1,215	1,331	1,356	1,484	1,563	1,869
Nebraska .....	2,616	2,652	3,106	3,337	3,246	3,653
Nevada .....	2,723	2,873	2,538	2,664	2,557	2,763
New Hampshire .....	378	434	434	418	335	358
New Jersey .....	14,290	16,050	17,290	16,918	16,031	18,111
New Mexico .....	1,855	1,630	1,967	1,792	2,177	2,263
New York .....	25,268	23,861	26,802	27,499	27,182	30,671
North Carolina .....	8,249	8,608	9,026	9,179	6,639	7,671
North Dakota .....	530	668	719	748	637	668
Ohio .....	28,997	26,200	28,656	31,419	34,042	38,538
Oklahoma .....	14,616	15,859	14,961	17,627	16,698	18,803
Oregon .....	6,794	6,702	5,968	6,373	6,161	6,910
Pennsylvania .....	18,056	19,705	20,625	23,261	22,078	24,063
Rhode Island .....	2,159	2,128	1,975	485	354	2,391
South Carolina .....	7,868	8,550	8,454	7,781	6,388	6,170
South Dakota .....	456	473	497	1,223	688	554
Tennessee .....	9,956	9,308	9,854	10,161	10,267	11,896
Texas .....	172,584	180,659	179,407	191,706	176,010	181,784
Utah .....	3,162	3,364	3,424	3,625	3,709	3,917
Vermont .....	154	178	135	226	150	120
Virginia .....	4,243	7,255	6,290	9,169	7,248	7,750
Washington .....	7,653	8,599	8,797	9,097	9,801	10,046
West Virginia .....	3,706	3,925	3,953	4,340	4,065	4,396
Wisconsin .....	8,845	10,786	12,912	15,305	14,831	17,090
Wyoming .....	4,082	3,988	4,135	3,974	4,931	3,959
<b>Total</b> .....	<b>709,964</b>	<b>701,193</b>	<b>735,588</b>	<b>781,460</b>	<b>747,065</b>	<b>799,981</b>

<sup>a</sup> Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components. Deliveries for total year 1995 in Idaho do not equal the sum of the twelve months.

<sup>R</sup> = Revised Data.

<sup>NA</sup> = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 17. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				August	July	June
Alabama .....	7,523	4,398	6,366	2,373	2,901	931
Alaska .....	22,835	20,920	19,959	2,439	2,736	2,580
Arizona .....	15,591	14,122	14,721	4,809	4,118	1,932
Arkansas .....	18,703	28,049	24,865	5,336	7,586	3,488
California .....	237,623	209,935	255,453	48,250	43,994	26,546
Colorado .....	3,423	3,507	2,590	721	710	340
Connecticut .....	10,798	5,603	16,262	2,303	2,416	1,366
Delaware .....	13,692	15,300	17,871	1,592	2,003	1,097
District of Columbia .....	0	0	0	0	0	0
Florida .....	211,084	190,253	212,287	33,367	33,080	31,138
Georgia .....	5,697	4,299	7,335	2,197	2,592	439
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	29,849	20,100	30,461	3,847	8,073	4,639
Indiana .....	3,784	3,497	6,643	480	1,690	721
Iowa .....	3,147	2,534	2,847	393	887	416
Kansas .....	16,440	18,591	22,894	3,457	6,295	3,113
Kentucky .....	1,466	1,502	519	311	525	170
Louisiana .....	193,331	183,898	226,314	34,549	39,943	29,948
Maine .....	0	0	0	0	0	0
Maryland .....	9,064	5,974	15,462	1,051	3,382	1,857
Massachusetts .....	37,837	22,737	46,462	5,577	6,018	6,206
Michigan .....	21,139	20,495	23,546	2,874	3,708	2,776
Minnesota .....	5,194	3,408	6,300	671	1,139	687
Mississippi .....	50,915	57,815	82,355	11,936	14,015	8,386
Missouri .....	5,548	4,435	10,871	1,220	2,812	1,029
Montana .....	302	236	289	46	116	8
Nebraska .....	1,958	1,891	2,081	370	892	221
Nevada .....	35,760	32,830	27,326	7,832	7,265	5,272
New Hampshire .....	444	2	2,115	77	12	353
New Jersey .....	24,213	19,286	35,629	4,239	8,152	4,613
New Mexico .....	23,099	20,023	23,854	4,338	4,026	2,923
New York .....	149,289	90,985	178,396	28,874	34,220	27,370
North Carolina .....	3,544	2,191	2,648	747	1,889	811
North Dakota .....	1	2	1	0	1	0
Ohio .....	2,433	2,189	6,007	301	1,065	591
Oklahoma .....	85,525	99,666	115,445	20,598	20,971	12,311
Oregon .....	3,952	5,542	11,102	2,950	357	147
Pennsylvania .....	6,077	4,503	19,569	923	2,725	886
Rhode Island .....	17,205	15,795	399	2,424	2,005	2,185
South Carolina .....	2,132	798	4,089	422	922	621
South Dakota .....	1,425	529	812	228	582	360
Tennessee .....	1,427	492	2,006	328	844	255
Texas .....	697,775	762,781	757,706	141,938	144,610	103,342
Utah .....	2,303	2,469	5,958	934	709	22
Vermont .....	23	12	72	4	4	3
Virginia .....	8,315	7,599	12,030	1,378	2,371	1,262
Washington .....	856	3,159	2,388	731	25	1
West Virginia .....	173	133	284	9	23	40
Wisconsin .....	13,533	4,487	7,666	899	2,180	1,695
Wyoming .....	55	60	92	3	4	13
<b>Total .....</b>	<b>2,006,503</b>	<b>1,919,031</b>	<b>2,270,349</b>	<b>390,347</b>	<b>426,594</b>	<b>295,112</b>

See footnotes at end of table.

**Table 17. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					1996
	May	April	March	February	January	Total
Alabama .....	483	386	168	156	125	6,146
Alaska .....	2,903	2,924	3,594	2,439	3,220	31,767
Arizona .....	2,742	723	588	358	319	19,248
Arkansas .....	583	614	253	217	626	33,988
California .....	37,243	25,412	24,423	14,231	17,524	318,035
Colorado .....	397	267	328	261	398	5,511
Connecticut .....	1,141	1,229	944	1,208	192	10,456
Delaware .....	1,064	1,841	2,280	2,069	1,746	23,370
District of Columbia .....	0	0	0	0	0	0
Florida .....	29,415	27,872	28,725	17,001	10,485	283,557
Georgia .....	203	176	30	18	42	4,674
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	2,931	4,976	2,503	1,679	1,201	25,863
Indiana .....	210	200	199	137	147	4,330
Iowa .....	286	269	405	231	261	3,491
Kansas .....	1,226	840	553	409	547	22,607
Kentucky .....	21	117	130	80	111	1,836
Louisiana .....	25,570	19,113	15,854	13,608	14,747	252,139
Maine .....	0	0	0	0	0	0
Maryland .....	726	1,478	337	47	185	8,455
Massachusetts .....	3,811	6,611	5,258	2,785	1,570	45,037
Michigan .....	2,772	2,282	2,434	2,375	1,916	32,559
Minnesota .....	596	621	698	124	658	5,301
Mississippi .....	4,689	3,034	2,932	2,717	3,207	83,251
Missouri .....	96	175	78	53	86	5,223
Montana .....	7	15	18	27	64	470
Nebraska .....	110	174	82	78	31	2,351
Nevada .....	5,220	3,518	3,822	1,363	1,468	46,766
New Hampshire .....	0	0	0	0	0	3
New Jersey .....	1,480	1,869	2,092	1,023	746	25,825
New Mexico .....	2,445	2,548	2,769	1,991	2,059	29,969
New York .....	16,444	11,135	14,307	12,117	4,823	142,688
North Carolina .....	61	26	1	9	0	2,381
North Dakota .....	0	0	0	0	0	3
Ohio .....	105	106	71	71	124	2,867
Oklahoma .....	6,747	7,058	6,712	4,867	6,260	136,436
Oregon .....	3	0	200	0	295	14,015
Pennsylvania .....	295	326	324	316	281	7,239
Rhode Island .....	2,447	1,854	2,180	2,021	2,088	25,071
South Carolina .....	67	72	12	4	11	1,206
South Dakota .....	85	85	39	19	26	725
Tennessee .....	0	0	0	0	0	572
Texas .....	73,272	59,323	60,401	54,897	59,992	1,039,155
Utah .....	126	123	134	118	138	3,428
Vermont .....	3	3	3	2	2	24
Virginia .....	626	1,398	1,058	44	178	10,275
Washington .....	86	5	0	2	6	6,590
West Virginia .....	33	9	23	23	12	205
Wisconsin .....	1,861	1,777	2,165	1,782	1,174	7,303
Wyoming .....	6	6	6	7	9	87
<b>Total .....</b>	<b>230,637</b>	<b>192,593</b>	<b>189,131</b>	<b>142,984</b>	<b>139,104</b>	<b>2,732,496</b>

See footnotes at end of table.



**Table 17. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	December	November	October	September	August	July
Alabama .....	291	480	384	593	708	1,457
Alaska .....	3,078	2,683	2,637	2,449	2,595	2,514
Arizona .....	443	296	2,242	2,145	4,797	3,286
Arkansas .....	1,226	297	201	4,215	5,421	7,029
California .....	17,182	22,900	32,454	35,564	53,941	42,047
Colorado .....	454	319	506	724	798	665
Connecticut .....	131	912	1,643	2,168	2,269	1,409
Delaware .....	1,048	2,129	2,330	2,562	2,416	2,342
District of Columbia .....	0	0	0	0	0	0
Florida .....	13,124	17,908	28,677	33,595	33,376	29,468
Georgia .....	43	80	9	243	588	1,514
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	550	1,859	1,046	2,309	4,289	4,369
Indiana .....	236	256	144	197	570	483
Iowa .....	236	232	211	277	298	355
Kansas .....	672	578	808	1,959	4,148	4,884
Kentucky .....	82	104	65	83	281	249
Louisiana .....	12,921	14,958	18,877	21,484	32,455	35,959
Maine .....	0	0	0	0	0	0
Maryland .....	211	263	485	1,521	1,920	1,273
Massachusetts .....	1,562	3,081	8,648	9,009	7,190	3,508
Michigan .....	2,888	3,151	2,705	3,320	2,746	2,767
Minnesota .....	419	403	469	602	624	690
Mississippi .....	3,671	6,561	5,392	9,812	12,074	10,509
Missouri .....	69	238	193	287	896	1,152
Montana .....	72	85	42	35	23	45
Nebraska .....	82	94	122	161	213	348
Nevada .....	2,311	2,458	4,266	4,900	6,394	6,552
New Hampshire .....	0	1	0	0	0	0
New Jersey .....	445	1,038	1,481	3,575	4,064	4,441
New Mexico .....	2,244	2,423	2,787	2,492	3,456	3,480
New York .....	5,108	10,715	14,459	21,421	24,086	18,789
North Carolina .....	1	1	112	75	196	766
North Dakota .....	0	0	0	1	1	0
Ohio .....	106	259	56	257	593	312
Oklahoma .....	6,107	8,068	9,395	13,201	19,557	19,747
Oregon .....	334	1,289	3,049	3,801	3,202	2,339
Pennsylvania .....	282	654	650	1,150	1,778	676
Rhode Island .....	2,167	2,449	2,424	2,236	2,417	2,031
South Carolina .....	20	16	23	350	64	239
South Dakota .....	35	80	5	76	178	155
Tennessee .....	0	1	0	79	240	130
Texas .....	51,332	59,062	75,410	90,570	119,967	136,109
Utah .....	142	130	133	554	870	810
Vermont .....	3	3	3	3	2	3
Virginia .....	333	193	473	1,677	1,578	1,704
Washington .....	21	358	801	2,251	2,558	451
West Virginia .....	43	3	1	26	15	11
Wisconsin .....	702	803	572	739	1,198	532
Wyoming .....	6	6	7	8	9	4
<b>Total .....</b>	<b>132,434</b>	<b>169,879</b>	<b>226,394</b>	<b>284,758</b>	<b>367,059</b>	<b>357,604</b>

See footnotes at end of table.

**Table 17. Natural Gas Deliveries to Electric Utility<sup>a</sup> Consumers,  
by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	June	May	April	March	February	January
Alabama .....	931	840	112	134	125	92
Alaska .....	2,611	2,592	2,434	2,763	2,573	2,839
Arizona .....	1,940	1,047	828	649	550	1,025
Arkansas .....	5,722	4,342	3,663	1,181	433	258
California .....	23,684	18,648	18,202	13,728	15,742	23,942
Colorado .....	400	584	246	317	305	193
Connecticut .....	951	595	298	28	27	26
Delaware .....	2,724	1,189	1,291	1,742	939	2,657
District of Columbia .....	0	0	0	0	0	0
Florida .....	28,311	31,435	21,801	15,773	13,992	16,097
Georgia .....	1,010	1,000	61	98	15	13
Hawaii .....	0	0	0	0	0	0
Idaho .....	0	0	0	0	0	0
Illinois .....	4,205	2,562	2,103	856	421	1,296
Indiana .....	746	506	248	233	337	373
Iowa .....	545	435	289	274	162	176
Kansas .....	4,175	1,661	728	726	701	1,568
Kentucky .....	235	236	139	119	56	186
Louisiana .....	31,317	26,523	13,556	15,080	14,146	14,863
Maine .....	0	0	0	0	0	0
Maryland .....	1,278	980	220	126	69	109
Massachusetts .....	3,616	2,443	2,108	1,485	1,435	952
Michigan .....	3,062	2,613	2,011	2,100	2,214	2,981
Minnesota .....	699	273	342	351	200	229
Mississippi .....	11,998	8,484	4,734	3,311	2,838	3,868
Missouri .....	1,011	802	184	111	134	146
Montana .....	52	8	4	37	23	43
Nebraska .....	466	320	202	139	80	123
Nevada .....	4,802	4,271	2,737	2,474	2,488	3,113
New Hampshire .....	0	0	0	0	0	0
New Jersey .....	4,207	1,984	647	483	1,291	2,171
New Mexico .....	2,895	3,067	1,997	2,383	861	1,883
New York .....	16,773	13,132	5,595	5,703	3,392	3,514
North Carolina .....	802	377	3	3	9	35
North Dakota .....	1	0	0	0	0	0
Ohio .....	477	426	46	58	90	187
Oklahoma .....	17,701	12,313	7,340	7,490	6,910	8,610
Oregon .....	0	0	0	0	0	0
Pennsylvania .....	591	506	262	225	120	344
Rhode Island .....	2,045	2,011	1,700	2,395	1,523	1,674
South Carolina .....	278	188	9	9	5	4
South Dakota .....	174	2	3	6	10	1
Tennessee .....	78	15	0	29	0	0
Texas .....	114,370	114,229	72,920	72,619	61,382	71,184
Utah .....	227	8	128	137	151	138
Vermont .....	4	0	2	0	0	1
Virginia .....	1,532	860	107	314	505	998
Washington .....	0	1	0	57	26	65
West Virginia .....	21	9	16	13	16	33
Wisconsin .....	772	696	229	353	271	436
Wyoming .....	17	5	5	8	5	7
<b>Total .....</b>	<b>299,454</b>	<b>264,216</b>	<b>169,550</b>	<b>156,120</b>	<b>136,572</b>	<b>168,455</b>

<sup>a</sup> Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-759, "Monthly Power Plant Report."

**Table 18. Natural Gas Deliveries to All Consumers, by State, 1995-1997**  
(Million Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997		
				August	July	June
Alabama .....	200,918	201,743	195,948	23,524	24,638	20,567
Alaska .....	97,227	98,189	91,395	10,360	10,334	10,194
Arizona .....	75,903	70,712	73,739	9,864	9,323	7,232
Arkansas .....	166,386	177,769	163,657	19,380	21,532	17,545
California .....	1,215,795	1,130,646	1,240,647	155,744	154,614	125,563
Colorado .....	NA	187,063	176,641	NA	16,390	NA
Connecticut .....	90,170	85,077	93,903	7,510	7,699	7,173
Delaware .....	34,577	36,967	41,339	2,970	3,508	2,852
District of Columbia .....	22,662	23,903	23,178	1,226	1,202	1,513
Florida .....	342,362	323,206	337,222	48,290	48,608	46,450
Georgia .....	230,744	251,008	233,389	21,341	21,371	19,045
Hawaii .....	1,754	1,830	1,883	201	218	211
Idaho .....	41,129	41,009	38,413	3,021	3,441	3,556
Illinois .....	707,669	725,593	683,228	40,598	46,966	44,672
Indiana .....	369,571	382,159	349,389	26,494	<sup>R</sup> 26,823	29,312
Iowa .....	163,373	172,214	159,725	11,655	11,554	11,603
Kansas .....	176,159	190,398	193,724	14,935	21,720	14,507
Kentucky .....	132,080	137,320	124,804	9,434	9,646	9,592
Louisiana .....	897,098	941,285	982,104	121,689	124,542	115,064
Maine .....	4,008	3,733	3,383	294	271	323
Maryland .....	NA	130,509	130,806	NA	12,480	NA
Massachusetts .....	NA	234,622	249,859	22,736	23,334	28,215
Michigan .....	640,026	675,983	621,834	39,732	26,763	47,778
Minnesota .....	224,363	228,325	215,893	13,520	13,121	14,870
Mississippi .....	NA	150,861	172,570	NA	22,094	16,536
Missouri .....	192,989	202,995	187,947	10,016	12,172	11,961
Montana .....	35,050	35,974	33,261	2,129	1,983	2,266
Nebraska .....	NA	86,991	82,481	NA	4,033	5,290
Nevada .....	89,033	83,924	76,353	12,429	11,767	10,182
New Hampshire .....	14,613	13,076	14,118	901	811	1,336
New Jersey .....	408,961	409,561	401,611	32,427	35,798	33,919
New Mexico .....	79,627	75,465	72,979	8,135	7,921	6,162
New York .....	NA	NA	781,312	NA	82,575	NA
North Carolina .....	143,795	139,779	132,759	12,972	13,613	13,376
North Dakota .....	24,106	21,496	19,891	1,314	1,006	1,384
Ohio .....	586,490	626,458	574,073	34,138	34,610	38,040
Oklahoma .....	308,808	320,994	323,903	41,364	40,916	33,470
Oregon .....	99,933	99,715	91,456	12,845	9,490	7,800
Pennsylvania .....	439,928	467,836	449,711	26,622	27,689	30,381
Rhode Island .....	56,037	52,644	44,423	4,757	5,075	5,714
South Carolina .....	112,274	97,793	100,901	13,758	17,974	10,987
South Dakota .....	22,808	22,512	20,829	1,210	1,398	1,503
Tennessee .....	181,800	173,184	158,878	16,625	14,884	15,758
Texas .....	2,344,260	2,469,383	2,300,803	336,130	333,478	288,929
Utah .....	86,334	82,721	83,387	6,712	6,619	5,977
Vermont .....	5,469	5,043	4,884	293	285	354
Virginia .....	157,328	157,278	160,029	14,228	14,380	11,860
Washington .....	NA	150,538	138,639	NA	13,007	13,977
West Virginia .....	75,576	78,230	75,092	6,001	5,547	6,088
Wisconsin .....	NA	263,458	240,218	NA	17,555	NA
Wyoming .....	NA	47,332	47,167	NA	3,352	NA
<b>Total .....</b>	<b>13,412,419</b>	<b>13,554,361</b>	<b>13,215,777</b>	<b>1,359,848</b>	<sup>R</sup> <b>1,380,127</b>	<b>1,282,522</b>

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to All Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1997					1996
	May	April	March	February	January	Total
Alabama .....	22,424	23,942	24,993	29,657	31,172	293,084
Alaska .....	10,857	12,458	13,869	13,399	15,754	150,877
Arizona .....	8,786	7,535	10,047	10,920	12,196	103,037
Arkansas .....	16,464	18,087	20,705	24,896	27,778	252,585
California .....	143,063	143,256	153,477	162,782	177,297	1,721,217
Colorado .....	NA	22,148	NA	NA	NA	269,006
Connecticut .....	8,929	12,971	14,438	16,123	15,326	126,488
Delaware .....	3,348	4,766	5,652	5,918	5,563	54,020
District of Columbia .....	2,317	2,158	4,232	4,971	5,042	33,644
Florida .....	45,776	44,267	45,215	34,457	29,299	478,471
Georgia .....	24,082	29,290	30,047	40,351	45,217	374,882
Hawaii .....	207	215	226	237	239	2,672
Idaho .....	4,298	5,685	6,454	7,128	7,546	61,058
Illinois .....	64,815	89,515	117,123	132,750	171,230	1,104,972
Indiana .....	39,497	46,637	58,050	64,835	77,926	561,056
Iowa .....	15,115	20,297	25,491	28,952	38,704	260,140
Kansas .....	16,509	19,765	24,630	28,702	35,391	275,508
Kentucky .....	12,569	15,682	19,924	23,491	31,742	207,529
Louisiana .....	112,568	106,030	101,161	104,504	111,538	1,382,966
Maine .....	434	562	702	643	778	5,722
Maryland .....	NA	NA	20,174	NA	NA	189,901
Massachusetts .....	25,382	38,194	42,536	44,668	NA	355,609
Michigan .....	70,279	87,599	112,016	120,488	135,372	980,555
Minnesota .....	20,092	28,755	38,990	43,574	51,440	348,671
Mississippi .....	13,193	13,006	14,796	17,432	18,819	216,524
Missouri .....	15,127	24,139	28,569	45,769	45,237	286,814
Montana .....	3,230	4,531	5,832	6,646	8,432	55,584
Nebraska .....	NA	NA	13,598	19,096	18,609	128,297
Nevada .....	11,097	9,856	12,100	10,278	11,324	122,449
New Hampshire .....	1,843	2,115	2,437	2,626	2,545	19,031
New Jersey .....	39,327	50,240	74,025	65,637	77,588	599,810
New Mexico .....	8,286	7,849	11,458	13,678	16,137	113,059
New York .....	NA	NA	NA	NA	NA	1,121,742
North Carolina .....	15,141	17,647	19,958	25,811	25,277	205,783
North Dakota .....	2,260	3,140	4,558	5,115	5,328	32,670
Ohio .....	59,663	75,369	98,118	113,372	133,180	915,035
Oklahoma .....	30,560	34,124	38,029	43,527	46,819	460,373
Oregon .....	9,529	11,832	14,351	15,519	18,566	160,626
Pennsylvania .....	44,874	60,020	73,750	84,428	92,163	684,022
Rhode Island .....	6,911	7,506	8,622	8,649	8,803	82,041
South Carolina .....	11,697	12,486	13,572	15,741	16,059	146,434
South Dakota .....	2,004	2,900	3,604	4,506	5,684	33,594
Tennessee .....	18,028	21,621	26,945	34,363	33,577	256,053
Texas .....	263,312	251,169	283,943	270,103	317,196	3,585,201
Utah .....	6,848	11,430	13,219	16,656	18,874	129,651
Vermont .....	569	782	1,048	1,059	1,078	7,325
Virginia .....	16,686	20,271	21,555	27,861	30,486	230,140
Washington .....	18,288	16,880	23,019	24,824	27,478	231,767
West Virginia .....	8,410	12,384	9,734	13,142	14,271	115,622
Wisconsin .....	NA	NA	46,087	48,846	61,081	398,581
Wyoming .....	NA	NA	NA	NA	NA	73,609
<b>Total .....</b>	<b>1,436,308</b>	<b>1,626,059</b>	<b>1,914,548</b>	<b>2,081,940</b>	<b>2,331,068</b>	<b>20,005,508</b>

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to All Consumers, by State, 1995-1997**  
(Million Cubic Feet) — Continued

State	1996					
	December	November	October	September	August	July
Alabama .....	27,094	22,883	21,529	19,832	19,033	20,226
Alaska .....	15,528	13,584	12,633	10,943	11,496	10,922
Arizona .....	10,289	7,516	7,435	6,972	9,510	8,156
Arkansas .....	23,939	18,699	14,990	17,185	18,927	20,438
California .....	166,541	147,022	138,842	136,901	155,943	135,936
Colorado .....	33,157	22,968	13,807	11,994	13,252	13,596
Connecticut .....	13,888	10,932	8,990	7,570	7,498	6,777
Delaware .....	4,253	4,459	4,236	4,104	3,910	3,861
District of Columbia .....	4,731	2,448	1,382	1,175	1,130	1,290
Florida .....	29,697	33,713	43,317	48,450	47,884	44,211
Georgia .....	42,005	36,037	24,688	21,145	22,041	21,029
Hawaii .....	220	200	209	213	206	218
Idaho .....	6,736	5,424	4,267	3,588	3,040	3,343
Illinois .....	149,698	121,461	65,883	42,305	39,723	39,693
Indiana .....	64,588	52,504	35,148	26,545	25,587	26,098
Iowa .....	33,840	27,088	15,392	11,602	11,684	11,467
Kansas .....	33,619	24,789	13,341	13,359	19,111	19,640
Kentucky .....	25,797	22,270	12,879	9,256	8,916	8,396
Louisiana .....	108,393	NA	NA	112,202	123,596	126,054
Maine .....	601	619	478	291	274	242
Maryland .....	22,026	16,766	10,847	9,705	10,184	9,222
Massachusetts .....	36,513	31,385	28,511	24,573	22,967	17,510
Michigan .....	114,489	91,489	55,831	42,722	39,157	40,199
Minnesota .....	47,484	36,773	21,889	14,156	12,763	13,247
Mississippi .....	16,183	16,579	14,771	18,125	20,243	18,928
Missouri .....	37,323	24,218	12,436	9,811	11,582	10,348
Montana .....	7,466	5,870	3,712	2,549	2,257	2,160
Nebraska .....	16,087	10,994	8,322	5,903	6,101	7,356
Nevada .....	10,973	9,050	8,977	9,476	10,921	11,337
New Hampshire .....	2,155	1,895	1,144	761	742	710
New Jersey .....	76,491	50,284	33,981	29,492	26,043	31,482
New Mexico .....	13,633	10,437	7,281	6,165	7,418	8,331
New York .....	NA	NA	NA	NA	NA	NA
North Carolina .....	23,182	17,666	14,099	11,058	10,992	11,307
North Dakota .....	4,544	3,497	1,900	1,219	936	885
Ohio .....	111,994	87,340	54,686	34,327	34,726	34,182
Oklahoma .....	42,614	33,004	30,251	33,379	39,824	39,995
Oregon .....	17,626	15,293	14,369	13,598	12,667	11,471
Pennsylvania .....	80,392	65,415	41,287	29,057	29,652	27,532
Rhode Island .....	8,359	7,830	6,999	6,206	6,308	4,620
South Carolina .....	15,449	12,527	10,815	9,849	9,602	9,559
South Dakota .....	4,805	3,425	1,677	1,171	1,162	1,143
Tennessee .....	30,041	23,454	15,496	13,863	13,130	12,981
Texas .....	284,720	261,074	NA	292,962	310,564	319,000
Utah .....	16,258	12,727	10,013	7,809	6,534	6,500
Vermont .....	844	698	440	300	273	228
Virginia .....	28,550	20,832	12,795	10,655	12,196	12,514
Washington .....	26,206	21,913	17,092	15,904	15,398	12,847
West Virginia .....	13,051	10,306	7,541	6,489	5,743	5,830
Wisconsin .....	50,811	43,208	25,032	16,019	15,491	13,931
Wyoming .....	8,146	7,382	6,411	4,324	4,322	4,042
<b>Total .....</b>	<b>2,086,126</b>	<b>1,731,770</b>	<b>1,377,692</b>	<b>1,252,627</b>	<b>1,312,337</b>	<b>1,284,757</b>

See footnotes at end of table.

**Table 18. Natural Gas Deliveries to All Consumers, by State, 1995-1997**

(Million Cubic Feet) — Continued

State	1996					
	June	May	April	March	February	January
Alabama .....	19,145	21,871	26,181	28,921	33,112	33,254
Alaska .....	10,983	11,154	12,345	14,192	14,334	12,764
Arizona .....	7,142	6,125	7,844	9,402	10,029	12,503
Arkansas .....	19,320	18,556	22,886	23,375	26,509	27,758
California .....	117,883	123,142	128,773	141,423	153,817	173,729
Colorado .....	13,134	17,609	26,605	31,433	37,489	33,945
Connecticut .....	6,410	7,576	11,010	14,113	15,385	16,308
Delaware .....	4,582	3,277	4,143	5,446	5,121	6,627
District of Columbia .....	1,405	2,040	3,637	3,927	5,025	5,450
Florida .....	42,761	48,319	38,647	33,399	31,525	36,460
Georgia .....	21,094	24,193	31,233	41,352	40,564	49,502
Hawaii .....	221	217	239	236	243	249
Idaho .....	3,718	4,537	5,166	6,412	7,355	7,438
Illinois .....	43,213	64,033	89,998	130,862	146,944	171,127
Indiana .....	50,104	22,111	48,080	63,463	68,873	77,843
Iowa .....	12,874	16,431	21,611	29,510	31,850	36,787
Kansas .....	17,217	15,908	20,931	28,138	31,845	37,609
Kentucky .....	11,114	10,325	16,374	24,662	26,052	31,481
Louisiana .....	124,988	117,827	107,234	115,083	109,392	117,111
Maine .....	297	362	444	676	693	743
Maryland .....	9,721	11,805	16,183	22,051	24,090	27,253
Massachusetts .....	19,087	23,463	30,891	37,902	40,483	42,319
Michigan .....	45,332	67,245	92,332	122,400	131,328	137,992
Minnesota .....	14,978	20,593	29,687	41,394	45,020	50,643
Mississippi .....	20,138	17,489	16,692	16,886	19,038	21,447
Missouri .....	11,539	16,261	26,460	35,528	43,572	47,706
Montana .....	2,521	3,602	4,720	5,933	7,397	7,384
Nebraska .....	6,017	7,619	11,193	14,342	16,979	17,384
Nevada .....	9,821	9,861	8,970	10,309	10,619	12,085
New Hampshire .....	855	1,263	1,793	2,388	2,611	2,714
New Jersey .....	31,189	38,773	53,135	67,758	76,551	84,630
New Mexico .....	8,044	6,718	8,983	9,770	10,949	15,252
New York .....	66,556	NA	NA	NA	NA	NA
North Carolina .....	11,847	13,086	18,978	21,425	24,787	27,357
North Dakota .....	1,235	2,081	3,180	4,226	4,485	4,468
Ohio .....	47,450	53,255	80,045	112,355	122,483	141,961
Oklahoma .....	36,075	33,715	34,411	40,875	46,027	50,071
Oregon .....	9,484	10,788	10,848	13,315	15,654	15,488
Pennsylvania .....	31,421	41,429	59,787	84,726	91,446	101,841
Rhode Island .....	5,342	6,111	6,827	7,151	6,916	9,369
South Carolina .....	9,690	10,847	13,344	13,721	15,118	15,912
South Dakota .....	1,480	1,896	2,925	4,581	4,604	4,719
Tennessee .....	13,507	14,359	22,229	26,961	33,354	36,663
Texas .....	307,032	318,667	288,584	313,252	290,819	321,464
Utah .....	5,632	6,981	10,571	12,310	17,035	17,158
Vermont .....	340	498	684	961	1,013	1,046
Virginia .....	10,792	14,116	18,035	28,025	29,635	31,965
Washington .....	12,936	16,490	18,363	22,246	26,822	25,438
West Virginia .....	5,606	7,097	10,302	13,241	14,642	15,770
Wisconsin .....	16,828	24,514	34,055	48,221	51,646	58,772
Wyoming .....	4,952	5,627	6,356	6,574	8,315	7,144
<b>Total .....</b>	<b>1,305,052</b>	<b>1,419,753</b>	<b>1,662,615</b>	<b>2,030,051</b>	<b>2,157,511</b>	<b>2,382,286</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Gas volumes delivered for use as vehicle fuel are included in the annual total for commercial deliveries but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-759, "Monthly Power Plant Report."

**Table 19. Average City Gate Price, by State, 1995-1997**  
(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				August	July	June	May	April
Alabama .....	3.85	3.37	2.83	3.88	4.10	3.86	3.54	3.16
Alaska .....	1.21	1.58	1.68	1.73	1.74	1.70	1.78	0.38
Arizona .....	3.16	2.34	2.11	3.16	2.98	3.32	3.18	2.61
Arkansas .....	3.19	2.56	2.32	3.28	2.78	2.77	2.59	2.48
California .....	2.99	2.37	2.02	2.79	3.72	2.67	2.55	2.30
Colorado .....	NA	2.27	2.71	NA	NA	NA	NA	2.30
Connecticut .....	5.29	5.10	4.85	5.33	4.55	4.76	4.81	4.94
Delaware .....	4.06	3.62	2.60	4.07	3.51	3.44	3.20	3.00
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.88	3.67	2.57	3.31	3.41	3.50	3.09	3.62
Georgia .....	4.01	3.69	2.95	3.90	3.96	4.37	3.20	3.08
Hawaii .....	6.55	5.90	5.09	6.35	6.59	5.46	6.47	7.21
Idaho .....	2.23	2.24	2.26	2.50	2.16	2.83	2.98	2.08
Illinois .....	3.16	3.19	2.58	3.37	2.81	3.11	3.06	2.48
Indiana .....	2.97	3.05	2.82	2.87	<sup>R</sup> 2.54	2.35	2.32	2.07
Iowa .....	3.70	3.33	2.83	5.86	6.62	4.74	3.49	2.83
Kansas .....	3.32	2.89	2.26	3.11	2.88	3.02	2.85	2.38
Kentucky .....	3.70	3.23	2.90	3.62	3.68	3.69	3.30	3.62
Louisiana .....	NA	3.10	2.09	NA	2.58	2.63	2.40	2.36
Maine .....	4.26	4.46	3.54	4.43	4.34	4.53	4.69	3.43
Maryland .....	NA	NA	2.85	NA	NA	NA	NA	NA
Massachusetts .....	3.75	3.85	3.49	4.29	5.29	5.61	2.86	3.26
Michigan .....	2.90	2.90	2.59	2.63	2.54	2.69	2.60	2.56
Minnesota .....	3.39	2.92	2.50	2.97	3.92	3.49	2.64	2.41
Mississippi .....	NA	3.20	2.34	NA	NA	2.95	2.43	2.89
Missouri .....	3.73	3.00	2.72	4.79	4.61	5.31	3.95	3.11
Montana .....	3.29	2.90	3.19	3.96	3.63	3.91	2.28	3.09
Nebraska .....	3.68	2.89	2.48	5.51	4.96	4.09	3.11	2.28
Nevada .....	3.47	2.79	2.84	3.99	3.87	3.64	2.72	2.81
New Hampshire .....	4.21	4.18	3.40	4.45	4.28	4.34	3.66	3.15
New Jersey .....	4.13	3.75	3.27	4.41	4.29	4.21	3.86	3.15
New Mexico .....	2.52	1.50	1.46	2.18	2.13	2.13	2.04	1.91
New York .....	NA	3.37	2.36	NA	NA	NA	NA	NA
North Carolina .....	3.99	3.71	2.95	3.96	3.90	3.84	3.83	3.40
North Dakota .....	3.30	2.76	2.67	3.36	3.14	3.17	2.95	2.50
Ohio .....	5.44	4.10	4.02	5.51	7.16	6.17	5.96	5.79
Oklahoma .....	3.11	2.55	2.65	2.66	3.23	2.66	2.22	2.22
Oregon .....	2.58	2.28	2.56	4.01	3.45	3.00	3.02	1.95
Pennsylvania .....	4.02	3.63	3.19	4.36	<sup>R</sup> 4.03	4.90	4.30	3.48
Rhode Island .....	4.52	4.29	3.51	6.64	7.53	6.42	4.81	3.46
South Carolina .....	3.71	3.89	3.26	3.86	3.74	3.78	3.54	3.25
South Dakota .....	3.69	2.97	2.96	4.26	4.40	4.58	3.75	3.02
Tennessee .....	NA	3.90	2.64	2.51	2.71	NA	2.96	2.51
Texas .....	3.60	3.07	2.95	3.11	3.23	3.01	2.50	2.38
Utah .....	2.57	2.16	3.18	3.02	2.83	2.35	1.93	2.15
Vermont .....	2.19	2.91	2.68	2.33	2.41	2.58	2.77	2.39
Virginia .....	4.15	3.76	2.96	4.47	3.94	3.77	5.12	3.28
Washington .....	NA	2.31	2.24	NA	NA	2.28	2.53	2.70
West Virginia .....	3.13	3.32	2.81	3.89	1.85	3.90	3.02	2.88
Wisconsin .....	NA	3.24	2.87	4.75	3.12	NA	3.39	NA
Wyoming .....	NA	NA	2.76	NA	NA	NA	NA	NA
<b>Total .....</b>	<b>3.54</b>	<b>3.23</b>	<b>2.78</b>	<b>3.24</b>	<sup>R</sup> <b>3.58</b>	<b>3.43</b>	<b>3.16</b>	<b>2.90</b>

See footnotes at end of table.

**Table 19. Average City Gate Price, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997			1996				
	March	February	January	Total	December	November	October	September
Alabama .....	3.20	4.02	4.44	3.48	4.07	3.61	3.44	3.62
Alaska .....	1.84	1.80	1.88	1.58	1.59	1.60	1.55	1.57
Arizona .....	2.22	2.85	4.21	2.78	4.14	3.32	2.66	3.02
Arkansas .....	2.46	3.16	4.18	2.76	3.68	3.04	2.46	2.29
California .....	2.25	3.21	4.14	2.59	3.81	3.00	2.37	2.34
Colorado .....	NA	NA	NA	2.70	4.91	3.13	2.58	2.49
Connecticut .....	4.82	6.00	5.82	5.11	6.15	4.60	4.46	4.65
Delaware .....	4.16	5.09	6.92	3.68	4.96	3.66	2.94	3.03
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	4.04	4.56	4.61	3.73	4.80	3.90	3.28	3.03
Georgia .....	3.31	4.15	4.80	3.77	4.65	3.71	3.17	3.31
Hawaii .....	6.50	7.73	6.16	6.05	6.67	6.30	6.33	6.00
Idaho .....	1.85	2.13	2.37	2.24	2.30	2.10	2.11	2.72
Illinois .....	2.43	3.30	3.79	3.27	4.05	3.25	2.65	2.80
Indiana .....	2.31	3.20	4.08	3.09	3.83	3.16	2.49	2.04
Iowa .....	3.05	3.66	3.98	3.47	4.09	3.46	3.12	4.28
Kansas .....	2.67	3.67	4.37	3.05	3.77	3.38	2.91	2.63
Kentucky .....	3.40	3.47	4.17	3.41	4.40	3.59	2.94	3.16
Louisiana .....	2.44	3.49	3.84	3.13	4.30	3.24	2.31	2.26
Maine .....	4.26	3.52	4.96	4.30	4.34	3.64	3.93	3.91
Maryland .....	NA	NA	NA	4.02	4.65	3.75	3.65	5.61
Massachusetts .....	2.97	4.12	4.30	3.98	4.82	3.72	3.60	5.36
Michigan .....	2.66	3.28	3.98	2.90	3.73	3.07	2.49	2.31
Minnesota .....	2.70	3.48	4.51	3.07	3.78	3.19	2.65	2.91
Mississippi .....	2.82	3.48	4.25	3.27	4.34	3.14	2.67	2.59
Missouri .....	2.78	3.50	4.05	3.25	4.03	3.20	3.47	4.14
Montana .....	2.70	3.50	3.73	3.03	3.46	3.04	3.08	3.24
Nebraska .....	3.02	3.75	4.42	3.07	3.99	3.11	2.93	2.85
Nevada .....	2.96	3.37	4.13	3.10	3.97	3.46	2.96	3.26
New Hampshire .....	3.99	4.42	4.93	4.20	5.01	4.15	3.19	3.86
New Jersey .....	3.99	4.20	4.70	3.84	4.82	3.83	3.25	3.69
New Mexico .....	1.38	2.39	3.85	1.99	3.60	2.68	1.88	1.66
New York .....	NA	NA	NA	3.36	4.38	3.03	2.86	2.61
North Carolina .....	3.51	4.34	4.36	3.74	4.26	3.48	3.22	3.68
North Dakota .....	2.43	3.59	4.22	2.94	3.80	3.10	2.49	2.54
Ohio .....	5.01	5.41	5.24	4.37	4.79	4.95	5.06	6.12
Oklahoma .....	3.09	3.68	3.52	2.56	2.84	2.44	1.99	2.53
Oregon .....	1.92	2.35	2.95	2.42	2.95	2.41	2.24	2.98
Pennsylvania .....	3.48	4.12	4.22	3.77	4.24	3.92	3.85	4.39
Rhode Island .....	3.16	4.26	4.85	4.41	5.20	4.04	3.91	5.94
South Carolina .....	2.95	3.97	4.20	3.90	4.60	3.76	3.26	3.53
South Dakota .....	2.78	3.95	4.10	3.19	3.98	3.37	2.87	3.40
Tennessee .....	NA	3.73	4.10	4.04	6.64	3.71	2.92	3.40
Texas .....	3.01	4.16	4.70	3.22	4.21	3.49	2.73	2.87
Utah .....	2.69	2.76	2.65	2.25	2.39	3.32	1.66	2.22
Vermont .....	2.26	2.16	1.57	2.74	2.67	2.49	2.18	2.36
Virginia .....	3.49	3.96	5.04	3.89	5.13	3.69	3.34	3.40
Washington .....	1.89	2.62	3.45	2.44	3.14	2.50	1.94	2.71
West Virginia .....	2.17	3.54	3.61	3.36	3.53	3.25	3.57	3.74
Wisconsin .....	2.89	3.54	4.13	3.43	4.12	3.61	3.17	4.11
Wyoming .....	3.19	3.61	NA	2.36	2.55	2.18	1.91	2.84
<b>Total</b> .....	3.06	3.78	4.27	3.34	4.18	3.46	2.94	3.05

See footnotes at end of table.



**Table 19. Average City Gate Price, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	August	July	June	May	April	March	February	January
Alabama .....	4.11	4.04	3.86	3.57	3.27	3.15	3.35	3.13
Alaska .....	1.54	1.54	1.57	1.56	1.58	1.60	1.60	1.56
Arizona .....	3.58	2.94	2.57	2.46	2.05	1.97	2.36	2.08
Arkansas .....	2.59	2.76	2.82	2.59	2.50	2.57	2.52	2.52
California .....	2.77	2.42	2.56	2.14	2.22	2.42	2.25	2.29
Colorado .....	2.29	2.30	2.40	2.50	2.94	2.16	2.18	2.08
Connecticut .....	4.42	4.75	5.03	4.94	5.22	4.66	5.37	5.55
Delaware .....	3.80	4.22	3.44	3.18	3.75	4.20	3.43	3.27
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.54	3.57	3.31	3.39	3.97	3.83	3.60	3.84
Georgia .....	4.00	4.22	3.68	3.74	3.51	3.82	3.36	3.71
Hawaii .....	6.05	6.34	6.27	6.32	5.74	5.53	5.49	5.60
Idaho .....	2.48	5.26	3.39	2.28	2.21	2.12	2.08	1.98
Illinois .....	3.25	3.69	3.12	2.83	2.93	3.49	3.73	2.66
Indiana .....	2.70	3.30	3.10	2.56	2.90	3.06	3.32	3.11
Iowa .....	7.96	7.45	4.61	4.19	3.13	2.82	3.03	2.62
Kansas .....	2.88	3.24	3.53	3.24	3.24	2.70	2.66	2.66
Kentucky .....	3.04	3.07	3.08	3.83	3.50	3.29	3.05	3.19
Louisiana .....	2.69	3.01	2.72	2.65	3.06	3.29	3.24	3.58
Maine .....	4.35	5.04	5.51	5.61	5.34	4.01	3.89	3.95
Maryland .....	5.85	6.04	5.63	4.35	4.01	3.70	3.23	3.82
Massachusetts .....	5.68	5.53	6.05	4.37	3.97	3.32	3.17	3.48
Michigan .....	2.98	2.87	2.64	2.69	2.80	3.11	2.91	3.14
Minnesota .....	3.32	4.14	2.88	2.82	2.73	2.79	2.78	2.90
Mississippi .....	2.89	3.10	2.90	2.70	3.37	3.36	3.07	3.49
Missouri .....	5.13	4.82	4.51	3.86	3.20	2.61	2.59	2.52
Montana .....	4.13	3.60	3.05	2.81	3.18	2.52	2.98	2.83
Nebraska .....	4.83	3.30	3.50	3.41	3.04	2.71	2.45	2.66
Nevada .....	3.83	3.48	3.36	3.17	2.90	2.45	2.61	2.40
New Hampshire .....	4.47	5.03	4.64	4.17	4.09	4.06	3.99	4.14
New Jersey .....	3.71	3.93	3.88	4.55	3.78	3.23	3.47	4.02
New Mexico .....	2.07	1.60	1.40	1.22	1.18	1.40	1.69	1.53
New York .....	2.91	3.13	3.17	3.18	3.40	3.50	3.38	3.57
North Carolina .....	3.94	3.75	3.75	3.69	3.95	3.60	3.66	3.65
North Dakota .....	3.44	2.90	2.78	2.64	2.62	2.45	2.82	2.94
Ohio .....	5.58	4.53	8.17	4.87	4.06	3.90	3.80	3.81
Oklahoma .....	2.65	2.51	2.40	2.61	2.53	2.58	2.60	2.46
Oregon .....	3.15	3.89	2.11	2.40	2.27	2.19	1.96	2.06
Pennsylvania .....	4.86	5.13	4.62	3.90	4.25	3.32	3.16	3.20
Rhode Island .....	6.51	7.46	6.42	5.06	3.53	3.85	3.92	3.28
South Carolina .....	3.87	4.01	3.49	3.96	3.96	3.94	3.77	4.01
South Dakota .....	6.37	4.74	3.96	2.92	2.63	2.84	2.79	2.54
Tennessee .....	3.70	3.48	3.67	3.72	3.28	3.29	4.56	4.50
Texas .....	2.97	3.04	2.91	2.81	3.13	3.05	3.13	3.20
Utah .....	2.08	2.15	2.12	1.93	1.98	2.34	2.10	2.27
Vermont .....	2.69	3.68	3.01	2.66	3.10	2.83	2.82	2.93
Virginia .....	4.42	4.52	4.93	4.00	3.38	3.58	3.36	3.88
Washington .....	3.21	3.57	3.39	2.30	2.23	1.99	2.12	1.98
West Virginia .....	4.43	3.85	3.49	3.54	3.21	3.36	3.54	2.60
Wisconsin .....	4.98	4.80	5.09	3.43	3.48	2.88	2.78	2.87
Wyoming .....	2.92	2.44	2.40	2.12	2.32	3.07	2.45	2.14
<b>Total .....</b>	<b>3.46</b>	<b>3.49</b>	<b>3.41</b>	<b>3.18</b>	<b>3.22</b>	<b>3.17</b>	<b>3.16</b>	<b>3.14</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

— = Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. Prices in this table represent the average price of natural gas by State at the point where the gas transferred from a pipeline to a local distribution company within the State. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 20. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				August	July	June	May	April
Alabama .....	8.45	6.95	6.90	11.70	11.26	10.45	8.69	9.21
Alaska .....	3.82	3.43	3.63	4.66	4.43	4.27	3.88	3.75
Arizona .....	7.49	7.46	7.75	10.54	10.05	9.59	8.68	7.93
Arkansas .....	6.58	5.67	5.57	9.25	8.64	8.23	6.93	6.40
California .....	6.54	6.52	6.52	7.57	7.05	7.71	6.38	6.18
Colorado .....	NA	4.39	4.81	NA	NA	NA	NA	3.92
Connecticut .....	10.45	9.94	10.03	11.48	11.35	10.71	10.71	10.07
Delaware .....	8.25	6.81	6.55	11.94	11.69	10.13	8.93	8.25
District of Columbia .....	9.11	8.89	8.10	8.40	8.46	8.28	9.18	8.74
Florida .....	12.28	10.38	9.62	15.05	14.65	14.15	13.36	12.89
Georgia .....	8.01	6.56	6.72	11.75	11.87	12.38	10.42	6.23
Hawaii .....	22.10	19.56	17.29	21.61	21.17	21.51	21.78	21.30
Idaho .....	5.05	5.20	5.62	6.51	6.16	5.81	5.26	5.10
Illinois .....	6.04	5.19	4.83	7.87	7.83	7.93	5.43	5.10
Indiana .....	6.52	5.37	5.62	9.40	<sup>R</sup> 10.18	8.85	7.23	6.70
Iowa .....	6.01	5.28	5.15	10.25	9.53	8.08	6.21	5.24
Kansas .....	6.45	5.47	4.72	8.27	7.54	8.05	6.24	6.04
Kentucky .....	6.41	5.24	5.24	9.22	9.15	7.56	6.67	6.84
Louisiana .....	7.12	6.45	5.76	8.76	8.41	8.45	7.52	6.09
Maine .....	8.55	7.75	7.41	9.25	9.69	8.39	7.95	9.05
Maryland .....	NA	NA	6.59	NA	NA	NA	NA	NA
Massachusetts .....	NA	8.76	9.05	10.39	9.86	8.32	7.49	9.90
Michigan .....	5.11	4.84	4.69	7.26	6.88	6.15	5.10	4.92
Minnesota .....	5.73	5.26	4.71	7.17	7.06	6.36	5.32	4.66
Mississippi .....	NA	5.49	5.21	NA	NA	7.36	6.91	6.42
Missouri .....	6.41	5.79	4.97	9.38	8.77	7.53	5.88	5.31
Montana .....	4.84	4.79	5.17	6.98	7.46	6.10	5.00	4.73
Nebraska .....	5.62	4.66	4.74	7.12	6.89	6.32	4.65	4.91
Nevada .....	6.10	6.16	6.72	7.99	7.58	7.31	6.63	6.16
New Hampshire .....	8.49	7.04	7.05	9.17	9.01	7.59	6.62	6.62
New Jersey .....	7.85	7.08	7.18	9.82	9.62	9.38	8.30	7.71
New Mexico .....	6.45	4.53	5.47	11.07	11.66	40.76	6.53	8.78
New York .....	NA	NA	8.28	NA	NA	NA	NA	NA
North Carolina .....	9.15	7.27	6.97	13.15	12.42	10.31	8.58	8.68
North Dakota .....	4.57	4.63	4.61	7.02	7.05	6.37	5.10	4.10
Ohio .....	6.83	5.56	5.56	8.46	8.71	7.55	6.74	6.60
Oklahoma .....	6.35	5.46	5.45	9.36	8.95	8.14	6.80	5.96
Oregon .....	6.06	6.30	6.73	8.12	7.53	7.21	6.38	6.04
Pennsylvania .....	8.35	7.10	7.53	11.50	<sup>R</sup> 11.78	10.15	8.88	8.41
Rhode Island .....	9.58	8.21	7.80	12.53	12.30	10.90	9.70	9.67
South Carolina .....	8.77	7.24	7.76	10.24	9.73	8.96	8.09	8.36
South Dakota .....	5.49	5.07	5.02	8.07	8.39	7.83	5.92	4.95
Tennessee .....	NA	6.23	5.81	9.00	8.92	NA	6.49	6.39
Texas .....	6.38	5.73	5.92	8.91	8.38	7.83	6.42	5.66
Utah .....	4.99	4.45	4.79	5.94	5.61	5.67	5.80	4.16
Vermont .....	6.34	6.32	6.85	8.78	8.51	7.35	6.52	6.23
Virginia .....	8.65	7.58	7.43	12.45	12.40	10.70	9.05	8.12
Washington .....	NA	5.63	5.92	NA	NA	5.82	5.69	5.68
West Virginia .....	7.01	6.97	7.05	9.58	10.39	8.47	7.26	6.91
Wisconsin .....	NA	NA	5.88	NA	6.76	NA	NA	NA
Wyoming .....	NA	NA	4.84	NA	NA	NA	NA	NA
<b>Total .....</b>	<b>6.86</b>	<b>6.21</b>	<b>6.15</b>	<b>8.66</b>	<sup>R</sup> <b>8.43</b>	<b>8.10</b>	<b>6.79</b>	<b>6.51</b>

See footnotes at end of table.

**Table 20. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997			1996				
	March	February	January	Total	December	November	October	September
Alabama .....	8.65	7.61	7.62	7.22	7.36	7.83	9.71	10.63
Alaska .....	3.79	3.66	3.63	3.42	3.32	3.37	3.46	3.77
Arizona .....	7.03	6.81	6.62	7.52	6.85	7.43	9.28	10.06
Arkansas .....	6.14	6.09	6.48	5.92	6.64	6.05	7.06	7.75
California .....	6.42	6.27	6.27	6.44	6.20	6.41	6.67	5.94
Colorado .....	NA	NA	NA	4.39	3.94	4.31	4.99	6.38
Connecticut .....	9.66	10.96	10.41	10.08	10.49	10.26	10.58	10.65
Delaware .....	7.94	7.75	7.54	7.12	7.59	7.90	9.08	10.58
District of Columbia .....	8.57	9.36	9.81	9.19	10.22	9.18	10.25	10.78
Florida .....	12.12	10.69	10.57	10.74	10.47	11.98	13.01	13.39
Georgia .....	8.88	7.47	6.53	6.69	6.75	5.83	8.51	10.32
Hawaii .....	22.29	25.55	21.14	19.81	19.51	20.71	20.95	20.47
Idaho .....	4.95	4.80	4.81	5.20	4.89	5.22	5.60	6.11
Illinois .....	5.28	6.50	6.15	5.28	5.13	5.05	5.93	8.14
Indiana .....	6.28	6.06	5.82	5.54	5.65	5.52	6.55	8.37
Iowa .....	5.58	6.01	5.57	5.49	5.71	5.30	6.66	9.16
Kansas .....	5.98	6.58	6.33	5.59	5.75	5.47	6.48	7.09
Kentucky .....	6.32	6.02	5.87	5.54	6.10	5.73	6.62	7.85
Louisiana .....	6.28	6.85	7.34	6.76	7.30	7.75	8.31	8.41
Maine .....	8.65	8.66	8.10	7.84	8.53	8.05	7.04	8.23
Maryland .....	NA	NA	NA	7.60	7.81	7.30	8.45	10.11
Massachusetts .....	9.70	9.62	NA	8.88	9.53	9.52	7.54	9.30
Michigan .....	4.82	4.94	5.04	4.96	5.07	5.01	5.58	6.55
Minnesota .....	4.81	5.81	6.50	5.46	6.18	5.47	5.48	6.67
Mississippi .....	5.49	5.61	6.17	5.72	6.58	6.28	6.35	6.35
Missouri .....	5.70	6.50	6.67	5.97	6.02	5.94	7.58	9.53
Montana .....	4.69	4.49	4.47	4.86	4.59	4.89	5.53	6.18
Nebraska .....	4.86	5.75	6.21	4.88	5.35	5.01	5.59	6.74
Nevada .....	5.78	5.76	5.54	6.19	5.69	6.05	7.40	7.91
New Hampshire .....	9.36	9.24	9.10	7.40	8.41	8.67	7.05	8.26
New Jersey .....	7.42	7.47	7.67	7.16	7.02	7.29	7.66	8.73
New Mexico .....	4.46	5.09	5.81	4.47	3.72	3.80	5.80	8.53
New York .....	NA	NA	NA	8.90	NA	NA	NA	NA
North Carolina .....	9.59	8.76	8.77	7.59	7.90	8.21	9.93	12.45
North Dakota .....	4.14	4.32	4.43	4.54	4.34	3.84	4.66	6.20
Ohio .....	6.51	6.83	6.72	5.90	6.29	6.56	7.29	8.41
Oklahoma .....	5.66	5.79	6.44	5.64	5.32	5.99	8.12	9.14
Oregon .....	5.85	5.76	5.73	6.31	5.95	6.30	7.01	7.85
Pennsylvania .....	8.05	8.05	7.64	7.38	7.60	7.80	8.60	10.61
Rhode Island .....	9.39	9.18	8.79	8.49	8.68	9.36	9.90	11.21
South Carolina .....	9.24	8.69	8.67	7.41	7.85	7.50	8.21	9.27
South Dakota .....	4.83	5.09	5.50	5.25	5.39	5.41	5.94	7.62
Tennessee .....	NA	7.00	6.84	6.26	6.17	5.93	7.07	8.46
Texas .....	5.56	6.05	6.35	5.89	6.14	5.34	7.07	7.86
Utah .....	5.14	4.89	4.91	4.47	4.75	4.81	3.79	4.15
Vermont .....	6.08	6.04	6.04	6.40	6.19	6.42	7.21	8.41
Virginia .....	7.56	8.07	8.87	7.94	8.48	8.26	9.78	11.94
Washington .....	5.48	5.40	5.39	5.65	5.44	5.60	6.09	6.87
West Virginia .....	6.80	6.67	6.68	7.02	6.80	7.01	7.55	9.22
Wisconsin .....	5.96	6.66	7.08	6.04	6.87	6.25	5.02	6.01
Wyoming .....	4.02	3.87	3.70	4.26	3.97	3.75	3.95	5.29
<b>Total .....</b>	<b>6.49</b>	<b>6.76</b>	<b>6.72</b>	<b>6.34</b>	<b>6.47</b>	<b>6.37</b>	<b>7.05</b>	<b>7.99</b>

See footnotes at end of table.

**Table 20. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	August	July	June	May	April	March	February	January
Alabama .....	10.98	10.77	10.56	8.10	6.89	6.84	6.35	5.99
Alaska .....	3.82	3.87	3.71	3.53	3.40	3.34	3.30	3.32
Arizona .....	10.40	10.02	9.35	8.70	7.59	6.99	6.82	6.62
Arkansas .....	8.30	8.44	7.88	6.75	5.46	5.42	5.27	5.24
California .....	6.85	8.28	6.99	6.39	6.01	6.21	6.33	6.48
Colorado .....	6.74	6.23	5.18	4.49	4.27	4.16	4.08	4.08
Connecticut .....	10.69	10.34	9.94	9.62	10.06	9.80	9.85	10.00
Delaware .....	10.19	10.27	8.92	7.83	6.75	6.42	6.29	6.36
District of Columbia .....	7.82	8.11	9.37	10.22	10.58	9.31	8.75	7.66
Florida .....	13.65	12.96	12.84	11.82	10.31	9.94	9.35	9.05
Georgia .....	10.50	10.98	11.40	10.48	7.33	5.56	5.99	5.08
Hawaii .....	20.50	20.81	20.12	20.44	19.20	19.12	18.73	18.11
Idaho .....	6.47	6.35	5.71	5.39	5.29	5.07	4.99	4.98
Illinois .....	9.26	8.43	8.21	6.76	5.51	4.91	4.55	4.24
Indiana .....	8.68	8.47	7.81	6.50	5.71	5.05	4.84	4.67
Iowa .....	12.66	8.87	7.86	6.18	5.08	4.76	4.80	4.45
Kansas .....	8.27	7.06	7.60	6.74	5.64	5.26	5.11	4.93
Kentucky .....	8.39	8.10	7.50	7.21	5.11	5.09	4.69	4.80
Louisiana .....	8.66	9.30	8.53	8.19	7.01	5.64	5.44	6.11
Maine .....	8.90	8.57	8.06	7.62	8.27	7.88	7.78	7.02
Maryland .....	10.95	10.87	9.91	8.57	7.35	7.15	6.99	6.62
Massachusetts .....	9.56	9.10	7.89	6.06	9.48	9.08	9.05	8.87
Michigan .....	7.32	7.18	6.55	5.20	4.79	4.44	4.60	4.52
Minnesota .....	7.67	7.50	6.71	5.77	5.38	4.97	4.88	4.95
Mississippi .....	6.40	6.47	6.36	6.16	5.64	5.54	4.91	5.44
Missouri .....	10.20	9.53	8.45	6.87	5.71	5.47	5.31	5.11
Montana .....	6.64	6.30	5.29	4.91	4.68	4.62	4.56	4.63
Nebraska .....	7.02	6.76	5.95	5.22	4.68	4.46	4.29	4.27
Nevada .....	8.13	7.66	7.04	6.68	6.22	5.86	5.76	5.64
New Hampshire .....	8.58	8.45	7.29	6.18	5.94	7.37	7.25	7.09
New Jersey .....	8.72	8.96	8.73	7.15	7.34	6.84	6.77	6.72
New Mexico .....	7.36	4.61	4.37	11.89	4.79	4.72	4.33	3.55
New York .....	NA	11.08	10.03	8.80	8.39	8.12	8.22	8.01
North Carolina .....	12.81	11.13	11.48	9.07	7.31	7.54	6.83	6.15
North Dakota .....	7.43	7.25	6.58	5.04	4.59	4.07	4.44	4.29
Ohio .....	8.98	8.10	7.07	6.34	5.39	5.35	5.40	4.94
Oklahoma .....	9.58	9.30	8.54	6.96	5.28	5.16	4.82	4.80
Oregon .....	8.28	7.81	6.99	6.56	6.40	6.23	5.72	6.11
Pennsylvania .....	10.70	10.46	9.10	8.16	7.30	6.68	6.62	6.43
Rhode Island .....	11.29	11.05	9.82	8.39	8.48	8.06	7.88	7.24
South Carolina .....	9.72	9.58	8.85	7.90	6.78	7.47	7.20	6.83
South Dakota .....	11.79	8.33	6.65	5.65	5.21	4.36	4.67	4.43
Tennessee .....	8.77	8.44	8.30	7.25	6.62	6.43	5.97	5.46
Texas .....	8.37	8.00	7.33	6.98	6.13	5.44	5.17	4.92
Utah .....	5.19	4.99	5.40	4.59	3.90	4.94	3.97	4.51
Vermont .....	8.92	8.73	7.49	6.59	6.24	6.09	6.02	5.98
Virginia .....	12.50	12.40	10.73	8.78	7.53	6.88	7.23	6.83
Washington .....	7.32	6.72	6.12	5.74	5.64	5.46	5.39	5.42
West Virginia .....	10.24	9.73	9.17	7.52	6.91	6.71	6.66	6.64
Wisconsin .....	6.73	6.71	6.03	5.58	5.92	5.89	5.77	5.92
Wyoming .....	5.68	5.71	5.02	4.58	4.42	4.29	4.04	4.24
<b>Total .....</b>	<b>8.73</b>	<b>8.64</b>	<b>7.83</b>	<b>6.84</b>	<b>6.27</b>	<b>5.93</b>	<b>5.82</b>	<b>5.64</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 21. Average Price of Natural Gas Sold to Commercial Consumers, by State,  
1995-1997**  
(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				August	July	June	May	April
Alabama .....	7.09	6.08	5.88	7.50	7.60	7.22	6.85	7.11
Alaska .....	2.41	2.34	2.28	2.02	2.24	2.15	2.23	2.37
Arizona .....	5.16	5.00	5.35	5.34	5.22	5.21	5.19	5.09
Arkansas .....	5.15	4.49	4.09	5.18	5.32	5.37	5.14	4.90
California .....	6.35	6.03	6.30	5.00	5.90	6.32	5.33	6.10
Colorado .....	NA	3.75	4.32	NA	NA	NA	NA	3.29
Connecticut .....	7.47	7.45	7.54	5.22	5.90	6.35	7.00	7.24
Delaware .....	6.71	5.68	5.28	8.64	7.91	7.39	6.82	6.61
District of Columbia .....	7.95	7.18	6.03	7.20	6.92	7.03	6.87	10.06
Florida .....	6.81	6.47	5.27	6.62	6.98	6.93	6.89	6.74
Georgia .....	6.73	5.82	5.51	7.00	7.60	7.68	6.30	5.57
Hawaii .....	15.20	14.08	12.88	15.09	15.07	15.37	15.25	15.34
Idaho .....	4.45	4.56	4.85	4.83	4.76	4.78	4.66	4.62
Illinois .....	5.46	4.79	4.56	6.10	5.68	5.55	4.93	4.64
Indiana .....	5.56	4.54	4.62	6.07	<sup>R</sup> 6.50	6.28	6.15	5.97
Iowa .....	5.04	4.29	4.14	6.44	5.68	6.05	4.88	4.34
Kansas .....	5.75	4.52	3.92	5.21	5.11	5.45	5.25	5.17
Kentucky .....	5.75	4.80	4.75	5.95	6.20	6.00	5.53	5.85
Louisiana .....	6.17	5.95	4.97	5.94	5.39	6.19	6.08	5.08
Maine .....	7.78	6.99	6.59	7.16	7.12	6.94	6.67	8.28
Maryland .....	NA	NA	5.04	NA	NA	NA	NA	NA
Massachusetts .....	7.35	6.73	6.68	5.53	5.34	5.04	5.44	7.94
Michigan .....	4.88	4.64	4.43	5.96	5.81	5.44	4.82	4.63
Minnesota .....	4.84	4.47	3.93	4.41	4.44	4.50	3.99	3.89
Mississippi .....	NA	5.31	4.42	NA	NA	4.79	5.08	4.93
Missouri .....	5.73	5.24	4.25	5.19	5.11	4.86	4.39	4.55
Montana .....	4.65	4.61	4.96	5.73	5.62	5.39	4.81	4.52
Nebraska .....	NA	NA	4.08	NA	NA	4.35	NA	NA
Nevada .....	5.02	4.88	5.45	5.22	5.11	5.07	5.12	5.18
New Hampshire .....	7.78	6.51	6.44	6.47	6.49	6.20	5.86	6.52
New Jersey .....	6.25	6.33	5.64	4.43	4.32	4.38	5.77	5.57
New Mexico .....	4.71	3.32	4.03	5.35	5.47	7.67	4.23	4.63
New York .....	NA	NA	6.24	NA	NA	NA	NA	NA
North Carolina .....	7.13	6.00	5.28	6.44	6.44	5.99	6.02	6.50
North Dakota .....	4.05	4.08	3.91	4.51	4.96	4.54	4.25	3.66
Ohio .....	6.42	5.09	5.00	6.82	6.76	7.39	6.08	6.18
Oklahoma .....	5.57	4.61	4.52	4.94	4.93	5.15	4.97	4.81
Oregon .....	4.61	4.85	5.23	4.89	4.76	4.79	4.62	4.61
Pennsylvania .....	7.52	6.28	6.51	7.92	<sup>R</sup> 8.12	8.13	7.99	7.70
Rhode Island .....	8.25	7.36	6.40	9.12	8.96	8.77	8.07	8.46
South Carolina .....	6.85	6.20	6.27	6.03	5.90	5.92	5.92	6.74
South Dakota .....	4.46	4.15	4.01	5.22	5.44	6.09	4.77	4.04
Tennessee .....	NA	5.76	5.26	5.81	5.91	NA	5.39	5.01
Texas .....	4.96	NA	4.07	4.40	4.51	4.80	4.60	4.29
Utah .....	3.67	3.30	3.60	4.02	3.82	3.60	3.37	3.09
Vermont .....	5.24	5.28	5.53	5.43	5.42	5.41	5.58	5.10
Virginia .....	6.48	5.74	5.19	6.58	6.68	6.10	6.31	6.29
Washington .....	NA	4.80	5.04	NA	NA	4.66	4.83	4.21
West Virginia .....	6.40	6.05	6.10	8.23	8.53	7.78	6.81	6.42
Wisconsin .....	NA	4.72	4.57	NA	4.60	NA	NA	NA
Wyoming .....	NA	NA	4.31	NA	NA	NA	NA	NA
<b>Total .....</b>	<b>5.77</b>	<b>5.34</b>	<b>5.13</b>	<b>5.48</b>	<b>5.56</b>	<b>5.67</b>	<b>5.39</b>	<b>5.44</b>

See footnotes at end of table.

**Table 21. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997			1996				
	March	February	January	Total	December	November	October	September
Alabama .....	7.26	6.92	6.97	6.19	6.52	6.31	6.60	6.81
Alaska .....	2.32	2.62	2.63	2.32	2.39	2.34	2.23	2.02
Arizona .....	5.27	5.11	5.01	5.01	4.99	5.02	5.16	5.19
Arkansas .....	4.86	5.07	5.42	4.68	5.59	5.02	4.72	4.67
California .....	6.71	6.98	7.18	5.94	6.36	5.49	5.68	5.46
Colorado .....	NA	NA	NA	3.67	3.32	3.41	3.69	3.93
Connecticut .....	7.66	8.45	8.09	7.41	7.90	7.84	6.19	5.95
Delaware .....	6.47	6.54	6.33	5.82	6.19	5.96	6.39	6.45
District of Columbia .....	7.61	7.97	8.24	7.37	8.01	8.02	7.93	7.35
Florida .....	6.96	6.84	6.56	6.45	6.47	6.43	6.41	6.38
Georgia .....	7.53	6.66	6.44	5.89	6.33	5.72	6.08	5.94
Hawaii .....	15.72	15.07	14.72	14.40	15.13	15.31	15.35	14.62
Idaho .....	4.36	4.29	4.30	4.56	4.34	4.63	4.86	4.91
Illinois .....	4.97	5.68	5.89	4.92	5.20	4.83	5.23	6.25
Indiana .....	5.37	5.43	5.14	4.67	4.98	4.66	5.01	5.97
Iowa .....	4.81	5.32	4.96	4.59	5.16	5.09	5.32	5.62
Kansas .....	5.46	6.25	6.12	4.61	4.90	4.56	4.69	5.44
Kentucky .....	5.72	5.80	5.61	5.09	5.67	5.50	5.80	5.95
Louisiana .....	5.78	6.48	7.08	6.08	6.87	6.58	6.15	5.90
Maine .....	8.10	8.12	7.75	7.09	7.87	7.58	6.17	6.55
Maryland .....	NA	NA	NA	6.07	6.61	5.69	5.88	6.27
Massachusetts .....	8.14	8.28	7.97	6.74	7.91	7.30	4.79	4.88
Michigan .....	4.71	4.80	4.99	4.75	4.97	4.85	5.24	5.52
Minnesota .....	4.16	5.23	6.02	4.63	5.66	4.61	3.99	4.26
Mississippi .....	4.61	5.17	5.61	5.22	5.73	4.86	4.31	4.25
Missouri .....	5.07	6.47	6.58	5.35	5.83	5.32	5.36	5.94
Montana .....	4.57	4.45	4.46	4.64	4.49	4.68	5.07	5.27
Nebraska .....	4.23	2.54	5.91	4.47	5.38	4.03	4.93	3.35
Nevada .....	4.95	4.86	4.97	4.90	4.88	4.89	5.13	5.14
New Hampshire .....	8.67	8.81	8.41	6.74	7.75	7.78	5.86	6.14
New Jersey .....	6.99	7.10	6.73	6.14	6.31	5.71	4.61	4.50
New Mexico .....	3.54	4.37	5.36	3.35	3.34	3.20	3.48	4.17
New York .....	NA	NA	NA	6.88	NA	NA	NA	NA
North Carolina .....	7.85	7.67	7.52	6.18	6.78	6.67	6.35	6.38
North Dakota .....	3.65	4.09	4.24	3.91	4.06	3.06	3.15	3.77
Ohio .....	6.03	6.74	6.45	5.38	5.82	6.15	6.43	6.67
Oklahoma .....	5.26	5.75	6.40	4.70	5.04	4.80	5.06	5.03
Oregon .....	4.57	4.55	4.56	4.85	4.65	4.82	5.09	5.11
Pennsylvania .....	7.37	7.55	7.07	6.44	6.86	6.61	7.00	7.53
Rhode Island .....	8.17	8.20	7.88	7.50	7.89	7.78	8.23	7.95
South Carolina .....	7.20	7.54	7.46	6.26	7.01	6.37	5.66	5.76
South Dakota .....	3.96	4.28	4.61	4.20	4.34	4.20	4.07	5.15
Tennessee .....	NA	6.19	6.51	5.72	5.78	5.32	5.50	6.05
Texas .....	4.42	5.28	6.00	4.27	5.38	4.58	NA	4.33
Utah .....	3.81	3.75	3.81	3.38	3.69	3.80	2.96	3.07
Vermont .....	5.15	5.21	5.24	5.24	5.20	5.11	5.11	5.19
Virginia .....	5.93	6.61	6.97	5.93	6.74	5.94	6.08	6.47
Washington .....	4.71	4.72	4.65	4.80	4.76	4.79	4.88	5.03
West Virginia .....	6.22	6.13	6.09	6.03	5.85	6.26	5.82	6.27
Wisconsin .....	5.02	5.62	6.12	4.83	5.73	4.99	3.72	4.08
Wyoming .....	3.31	3.28	3.17	3.68	3.08	2.60	3.73	4.06
<b>Total</b> .....	5.69	5.97	6.09	5.40	5.78	5.40	5.33	5.46

See footnotes at end of table.

**Table 21. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1995-1997**  
(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	August	July	June	May	April	March	February	January
Alabama .....	6.88	6.82	6.99	6.41	6.08	6.21	5.78	5.63
Alaska .....	2.03	2.15	2.22	2.27	2.40	2.37	2.46	2.36
Arizona .....	5.15	5.10	5.00	4.96	5.01	4.98	4.99	4.94
Arkansas .....	4.86	4.98	5.12	4.85	4.48	4.35	4.38	4.32
California .....	5.25	5.50	5.42	5.55	5.99	6.60	6.19	6.74
Colorado .....	4.03	3.91	3.79	3.64	3.69	3.84	3.69	3.71
Connecticut .....	5.70	5.89	6.48	7.28	7.76	7.73	8.33	7.40
Delaware .....	6.88	6.93	6.82	6.06	5.52	5.64	5.34	5.33
District of Columbia .....	5.87	5.82	6.32	6.28	6.89	8.74	8.14	6.83
Florida .....	6.39	6.45	6.53	6.62	6.61	6.67	6.38	6.19
Georgia .....	5.95	6.57	7.07	7.07	5.96	5.47	5.68	5.23
Hawaii .....	14.94	15.33	14.64	14.41	13.58	13.84	13.39	12.82
Idaho .....	4.92	4.93	4.78	4.78	4.67	4.43	4.42	4.46
Illinois .....	7.66	7.09	6.68	6.19	5.00	4.75	4.31	4.07
Indiana .....	5.87	5.86	5.72	5.30	4.97	4.39	4.20	4.06
Iowa .....	8.72	5.98	5.11	4.45	3.84	4.10	4.04	3.98
Kansas .....	5.98	3.72	4.63	4.73	4.36	4.64	4.53	4.33
Kentucky .....	6.34	5.82	5.62	5.78	4.92	4.58	4.53	4.49
Louisiana .....	6.11	6.63	6.10	6.54	6.40	5.46	5.34	6.08
Maine .....	6.57	7.96	6.44	6.31	7.22	7.32	7.32	6.51
Maryland .....	6.51	6.34	6.34	6.13	5.71	6.15	6.21	5.74
Massachusetts .....	4.87	5.06	4.78	4.30	7.41	7.43	7.56	7.41
Michigan .....	6.09	5.92	5.59	4.78	4.57	4.52	4.52	4.46
Minnesota .....	4.95	4.88	4.66	4.52	4.44	4.38	4.38	4.45
Mississippi .....	4.14	4.32	4.33	12.85	4.84	4.83	4.53	4.98
Missouri .....	6.37	6.02	5.63	5.41	5.14	5.28	5.18	4.97
Montana .....	5.32	5.17	4.75	4.66	4.53	4.54	4.51	4.55
Nebraska .....	4.37	4.16	4.26	5.40	4.34	4.37	4.53	4.20
Nevada .....	5.10	4.92	4.92	4.93	4.90	4.86	4.84	4.80
New Hampshire .....	6.23	6.29	5.91	5.36	5.79	7.00	6.94	6.67
New Jersey .....	4.47	4.78	4.65	5.02	5.46	5.87	5.84	9.12
New Mexico .....	3.37	2.78	2.75	4.23	3.36	3.56	3.57	3.14
New York .....	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina .....	6.37	7.14	5.67	6.24	5.85	6.36	6.12	5.41
North Dakota .....	4.98	6.54	5.55	4.49	4.13	3.36	4.15	3.84
Ohio .....	6.88	6.29	5.95	5.61	5.01	5.03	5.08	4.69
Oklahoma .....	5.12	4.72	4.99	4.97	4.44	4.64	4.50	4.51
Oregon .....	5.09	5.09	4.83	4.81	4.92	4.81	4.80	4.81
Pennsylvania .....	7.26	7.33	7.11	6.85	6.86	6.25	5.62	6.04
Rhode Island .....	7.95	8.11	7.71	7.29	7.55	7.46	7.43	6.80
South Carolina .....	5.74	5.69	5.80	5.87	6.05	6.49	6.66	6.22
South Dakota .....	8.54	5.68	5.55	4.72	4.36	3.47	4.04	3.54
Tennessee .....	6.33	5.91	6.08	5.98	5.97	5.94	5.80	5.22
Texas .....	3.89	3.82	3.81	3.81	3.91	4.25	4.28	4.38
Utah .....	3.32	3.25	3.34	3.01	2.86	3.69	3.06	3.59
Vermont .....	5.44	5.45	5.56	5.38	5.24	5.19	5.24	5.28
Virginia .....	6.65	6.73	6.25	5.17	5.66	5.44	5.94	5.53
Washington .....	5.10	5.16	4.77	4.78	4.80	4.76	4.76	4.75
West Virginia .....	4.85	4.67	8.07	6.83	6.34	6.10	6.03	6.01
Wisconsin .....	4.66	4.72	4.49	4.22	4.80	4.79	4.67	4.86
Wyoming .....	3.90	4.13	4.11	3.98	4.03	4.08	3.80	4.05
<b>Total .....</b>	<b>5.56</b>	<b>5.46</b>	<b>5.43</b>	<b>5.40</b>	<b>5.34</b>	<b>5.36</b>	<b>5.25</b>	<b>5.29</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 22. Average Price of Natural Gas Sold to Industrial Consumers, by State,  
1995-1997**  
(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				August	July	June	May	April
Alabama .....	3.42	3.65	2.94	3.21	3.08	3.20	3.19	2.96
Alaska .....	1.53	1.45	1.45	1.56	1.56	1.48	1.44	1.53
Arizona .....	3.71	3.81	3.66	3.10	3.16	3.90	3.90	4.31
Arkansas .....	3.58	3.13	2.83	3.57	3.42	3.37	3.17	3.19
California .....	4.02	3.68	3.69	3.42	3.79	4.00	2.51	3.45
Colorado .....	NA	NA	NA	NA	NA	NA	NA	2.17
Connecticut .....	4.78	4.82	4.38	3.86	3.93	4.02	4.22	4.46
Delaware .....	4.23	4.17	2.92	4.07	4.04	3.99	3.62	3.62
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	4.50	4.22	3.22	4.64	4.32	4.40	4.34	4.41
Georgia .....	5.25	4.66	3.70	4.68	4.81	6.14	4.67	4.39
Hawaii .....	—	—	—	—	—	—	—	—
Idaho <sup>a</sup> .....	2.73	2.88	3.75	2.68	2.80	2.52	2.73	2.75
Illinois .....	4.68	4.08	3.71	4.48	4.15	3.16	3.00	4.10
Indiana .....	4.28	3.54	3.40	3.95	<sup>R</sup> 3.91	4.38	4.50	4.67
Iowa .....	3.89	3.50	3.31	3.52	4.11	3.37	3.96	3.14
Kansas .....	2.99	2.92	2.16	3.10	3.01	3.03	2.57	2.32
Kentucky .....	4.18	3.80	3.27	3.87	3.90	3.61	3.73	3.82
Louisiana .....	NA	2.81	1.78	2.92	NA	3.14	2.85	2.78
Maine .....	5.51	5.19	4.52	4.43	4.40	4.45	4.10	5.77
Maryland .....	NA	5.41	3.33	NA	NA	NA	NA	NA
Massachusetts .....	5.96	5.45	4.45	4.02	4.19	3.73	4.63	6.35
Michigan .....	4.17	3.86	3.61	4.53	4.60	4.41	4.24	4.12
Minnesota .....	3.10	2.94	2.47	2.74	2.58	2.72	2.67	2.58
Mississippi .....	NA	3.41	2.85	NA	NA	3.21	3.06	2.98
Missouri .....	4.56	4.24	3.43	3.88	3.81	3.81	3.45	3.78
Montana .....	4.84	4.84	4.85	4.98	4.96	4.88	4.85	4.84
Nebraska .....	3.59	3.15	2.86	3.38	3.09	3.02	2.77	2.66
Nevada .....	6.52	4.94	5.44	7.42	7.08	7.50	7.77	5.80
New Hampshire .....	4.53	4.27	3.89	3.46	3.42	3.62	3.12	4.02
New Jersey .....	3.77	3.89	3.11	2.72	3.35	3.32	3.09	2.87
New Mexico .....	3.22	3.08	3.92	3.02	2.92	3.71	2.96	5.10
New York .....	NA	5.17	4.64	NA	NA	NA	NA	NA
North Carolina .....	4.64	4.22	3.49	2.83	4.00	3.64	4.01	4.14
North Dakota .....	3.09	3.23	2.86	3.66	3.14	3.02	2.42	2.37
Ohio .....	5.78	4.14	3.97	5.38	4.42	6.96	4.50	5.96
Oklahoma .....	4.03	3.12	2.28	3.33	3.34	3.32	2.75	3.08
Oregon .....	3.17	3.21	3.44	2.96	3.15	3.10	3.15	3.16
Pennsylvania .....	4.93	4.18	3.60	4.14	5.89	4.70	4.48	4.73
Rhode Island .....	4.28	4.41	4.25	3.66	3.78	3.74	4.72	3.56
South Carolina .....	3.28	3.74	3.07	3.25	1.78	3.32	3.26	3.21
South Dakota .....	3.94	2.91	3.49	3.96	4.49	4.08	3.55	3.12
Tennessee .....	NA	3.90	3.43	3.44	3.09	NA	3.19	3.40
Texas .....	2.65	NA	1.64	2.34	2.41	2.46	2.31	2.03
Utah .....	2.47	2.09	2.42	2.81	2.70	2.27	2.27	2.31
Vermont .....	3.07	3.55	3.46	2.96	2.97	3.01	3.05	2.98
Virginia .....	4.01	4.19	3.45	3.95	3.82	3.88	4.03	3.11
Washington .....	NA	2.60	2.72	NA	NA	2.81	2.94	2.75
West Virginia .....	2.90	2.70	2.54	2.84	2.91	2.72	2.81	2.49
Wisconsin .....	NA	3.35	2.97	3.23	3.26	NA	3.08	NA
Wyoming .....	NA	NA	3.22	NA	NA	NA	NA	NA
<b>Total .....</b>	<b>3.48</b>	<b>3.36</b>	<b>2.61</b>	<b>2.96</b>	<b><sup>R</sup>2.97</b>	<b>3.11</b>	<b>2.95</b>	<b>3.01</b>

See footnotes at end of table.



**Table 22. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997			1996				
	March	February	January	Total	December	November	October	September
Alabama .....	3.15	3.91	4.57	3.64	4.61	3.72	3.14	2.94
Alaska .....	1.55	1.57	1.55	1.41	1.35	1.35	1.35	1.35
Arizona .....	4.06	3.74	4.32	3.80	3.81	3.80	3.78	3.76
Arkansas .....	3.31	3.78	4.45	3.28	4.33	3.72	3.00	3.07
California .....	4.24	5.32	5.49	3.77	4.40	4.01	3.32	3.57
Colorado .....	NA	NA	NA	2.91	1.01	0.94	2.13	0.46
Connecticut .....	4.91	5.76	6.11	4.80	5.81	4.95	4.00	3.98
Delaware .....	4.35	5.03	5.29	4.32	5.00	4.62	4.62	4.58
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	4.42	4.68	4.69	4.21	4.52	4.29	3.96	3.87
Georgia .....	5.07	5.63	6.40	4.40	4.87	3.76	4.16	2.73
Hawaii .....	—	—	—	—	—	—	—	—
Idaho <sup>a</sup> .....	2.75	2.76	2.78	2.78	2.42	2.51	2.76	2.75
Illinois .....	4.80	5.86	6.49	4.12	4.15	4.09	4.17	5.04
Indiana .....	4.41	4.21	4.19	3.62	4.16	3.52	3.52	3.91
Iowa .....	4.04	4.73	3.94	3.63	3.96	3.82	3.46	3.95
Kansas .....	2.34	3.45	4.33	3.09	4.85	3.37	2.44	3.04
Kentucky .....	3.97	4.67	4.78	3.87	4.64	3.92	3.73	3.65
Louisiana .....	2.69	3.49	4.19	2.84	4.07	NA	NA	2.08
Maine .....	7.08	7.10	6.95	5.22	6.60	6.56	4.04	3.96
Maryland .....	NA	NA	NA	5.36	4.63	6.00	7.80	6.18
Massachusetts .....	7.12	8.35	7.05	5.37	6.98	5.52	4.15	3.75
Michigan .....	4.15	4.02	4.16	3.87	4.06	3.97	3.74	3.30
Minnesota .....	2.74	3.73	4.69	2.97	4.18	3.09	2.12	2.35
Mississippi .....	2.93	3.80	4.45	3.43	4.47	3.59	2.87	2.85
Missouri .....	4.48	5.94	5.35	4.35	4.84	4.02	3.75	4.12
Montana .....	4.84	4.80	4.79	4.88	4.87	4.95	5.02	5.04
Nebraska .....	3.19	4.14	5.13	3.29	4.30	3.62	2.71	2.86
Nevada .....	4.67	4.64	9.50	4.90	4.67	4.68	5.01	5.10
New Hampshire .....	6.10	7.97	7.94	4.79	6.84	5.13	7.64	3.48
New Jersey .....	4.82	5.03	4.92	3.82	4.62	3.70	3.05	3.01
New Mexico .....	3.40	4.02	3.01	2.90	2.63	2.78	2.98	3.57
New York .....	NA	NA	NA	5.04	5.17	4.79	4.45	4.16
North Carolina .....	4.80	5.41	5.63	4.37	5.14	4.65	4.05	4.03
North Dakota .....	1.60	4.94	4.39	3.02	3.89	2.36	2.28	2.77
Ohio .....	5.49	6.71	5.77	4.10	2.79	5.14	4.84	4.51
Oklahoma .....	3.90	4.53	5.41	3.26	3.87	3.33	3.28	3.57
Oregon .....	3.25	3.24	3.25	3.24	3.29	3.36	3.52	3.17
Pennsylvania .....	4.91	5.25	5.25	4.12	3.87	4.15	3.97	3.94
Rhode Island .....	4.50	5.52	5.64	4.67	9.64	4.62	3.70	3.84
South Carolina .....	3.43	4.22	4.74	3.77	4.58	4.03	3.29	3.30
South Dakota .....	3.00	4.00	4.99	3.50	6.16	4.81	4.73	5.36
Tennessee .....	NA	4.75	4.80	3.92	4.52	3.95	3.52	3.80
Texas .....	2.08	3.19	4.10	2.58	3.82	2.89	2.06	2.11
Utah .....	2.53	2.53	2.44	2.10	2.28	2.22	1.97	2.00
Vermont .....	3.10	3.14	3.32	3.44	3.18	3.20	3.44	3.17
Virginia .....	4.79	5.51	3.56	4.07	3.91	3.53	4.14	4.10
Washington .....	2.88	3.58	4.36	2.67	3.81	2.78	2.52	1.93
West Virginia .....	2.78	3.03	3.44	2.76	2.96	3.06	2.70	2.78
Wisconsin .....	3.44	4.27	4.86	3.48	4.79	4.10	2.67	2.74
Wyoming .....	NA	NA	NA	3.14	3.25	3.32	3.29	3.19
<b>Total</b> .....	3.38	4.21	4.60	3.42	4.20	3.57	2.89	2.77

See footnotes at end of table.

**Table 22. Average Price of Natural Gas Sold to Industrial Consumers, by State,  
1995-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							
	August	July	June	May	April	March	February	January
Alabama .....	3.50	3.52	3.36	3.30	3.67	3.87	3.95	3.83
Alaska .....	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Arizona .....	3.68	3.58	3.84	3.84	3.84	3.86	3.88	3.85
Arkansas .....	3.09	3.18	3.06	3.06	3.07	3.29	3.05	3.21
California .....	3.55	3.63	3.37	3.28	3.60	3.67	3.88	4.31
Colorado .....	0.27	0.24	1.89	1.94	0.68	0.45	0.54	2.02
Connecticut .....	3.83	4.01	4.06	4.21	4.69	5.21	5.68	6.52
Delaware .....	4.71	4.67	4.29	4.79	3.99	3.88	4.10	3.74
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	4.08	4.12	4.14	4.08	4.51	4.16	4.49	4.11
Georgia .....	4.08	6.69	5.42	4.47	4.10	4.56	4.59	4.63
Hawaii .....	—	—	—	—	—	—	—	—
Idaho <sup>a</sup> .....	2.74	2.92	2.79	2.84	2.76	2.92	2.91	3.19
Illinois .....	4.98	4.81	5.34	4.55	3.25	4.63	3.82	3.65
Indiana .....	3.99	3.70	3.91	4.05	3.70	3.41	3.58	3.08
Iowa .....	3.57	4.43	4.28	3.57	3.10	3.37	3.41	3.22
Kansas .....	3.21	2.67	2.00	2.62	2.17	3.80	3.23	3.17
Kentucky .....	3.97	3.74	3.63	3.78	3.73	3.77	3.81	3.88
Louisiana .....	2.36	2.84	2.71	2.56	2.85	3.13	2.77	3.31
Maine .....	3.96	4.15	3.95	5.04	6.17	6.27	6.39	5.51
Maryland .....	7.39	6.35	6.08	6.06	5.39	5.11	5.80	4.11
Massachusetts .....	3.71	3.98	3.74	4.44	5.81	6.41	6.88	6.64
Michigan .....	3.47	3.51	3.49	3.62	3.79	3.98	4.01	4.00
Minnesota .....	2.99	2.91	2.65	2.67	3.34	2.91	2.65	3.22
Mississippi .....	3.20	3.43	3.23	3.14	3.47	3.58	3.26	3.82
Missouri .....	4.27	4.23	3.88	3.26	4.20	4.90	4.56	4.29
Montana .....	5.16	5.09	5.01	4.65	4.84	4.74	4.72	4.94
Nebraska .....	3.42	3.19	3.09	2.92	3.13	3.10	3.19	3.19
Nevada .....	5.15	4.80	4.86	4.90	4.91	4.96	4.98	4.93
New Hampshire .....	3.34	3.46	3.38	3.44	4.21	5.36	6.00	5.16
New Jersey .....	3.29	3.17	3.28	3.31	4.12	4.26	4.71	4.47
New Mexico .....	3.44	2.89	2.69	3.31	3.17	4.53	4.03	2.45
New York .....	4.66	4.73	4.63	4.91	5.40	5.34	5.75	5.29
North Carolina .....	3.82	3.87	3.64	3.84	3.90	4.62	5.04	4.41
North Dakota .....	2.99	3.34	3.01	3.16	3.28	3.09	3.28	3.38
Ohio .....	4.75	4.96	4.06	4.22	4.26	4.19	3.91	4.02
Oklahoma .....	3.30	3.36	3.41	3.01	2.99	3.11	3.05	3.00
Oregon .....	3.21	3.30	3.23	3.18	3.12	3.25	3.23	3.17
Pennsylvania .....	3.90	3.72	3.79	3.90	4.09	4.10	4.52	4.67
Rhode Island .....	3.82	4.30	3.89	4.11	4.46	5.63	5.45	4.72
South Carolina .....	3.43	3.54	3.37	3.41	3.79	4.02	4.25	4.40
South Dakota .....	5.26	4.81	5.44	4.63	4.55	2.02	2.88	4.21
Tennessee .....	4.11	3.81	3.57	3.81	4.02	4.08	4.29	3.55
Texas .....	2.53	2.66	2.46	2.39	2.49	2.29	2.66	2.43
Utah .....	2.03	1.97	2.02	2.06	2.08	2.36	1.82	2.35
Vermont .....	3.31	3.37	3.55	3.74	3.75	3.54	3.63	3.46
Virginia .....	4.32	4.45	3.77	3.58	4.82	4.05	4.33	4.25
Washington .....	3.84	2.36	2.79	2.48	2.47	2.53	2.63	2.39
West Virginia .....	2.41	2.61	2.72	2.66	2.87	2.89	2.83	2.61
Wisconsin .....	3.05	3.26	3.08	3.02	3.47	3.38	3.39	3.57
Wyoming .....	3.15	3.10	2.97	3.28	3.22	3.24	2.65	3.27
<b>Total .....</b>	<b>3.05</b>	<b>3.17</b>	<b>3.13</b>	<b>3.14</b>	<b>3.42</b>	<b>3.52</b>	<b>3.61</b>	<b>3.61</b>

<sup>R</sup> = Revised Data.

NA = Not Available.

— = Not Applicable.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 23. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers,  
by State, 1996-1997**  
(Dollars per Thousand Cubic Feet)

State	YTD 1997	YTD 1996	YTD 1995	1997				
				July	June	May	April	March
Alabama .....	2.60	2.87	1.94	2.51	2.65	2.44	3.21	2.12
Alaska .....	1.68	1.31	1.33	1.87	1.79	1.64	1.63	1.55
Arizona .....	2.93	3.13	1.78	2.20	3.03	3.11	4.47	2.85
Arkansas .....	2.41	2.56	1.73	2.38	2.40	1.92	1.98	1.60
California .....	3.01	2.57	2.36	2.69	2.75	2.60	2.63	3.04
Colorado .....	3.67	1.92	1.70	4.07	2.31	6.20	2.47	2.26
Connecticut .....	2.45	2.82	2.07	2.33	2.26	2.22	2.22	2.45
Delaware .....	3.04	3.64	2.27	2.83	1.95	3.68	2.53	2.61
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.34	3.20	2.19	2.30	2.33	2.09	2.26	2.05
Georgia .....	2.81	3.08	2.84	2.75	3.13	2.64	2.64	3.34
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	2.34	2.75	1.58	2.31	2.37	2.29	2.12	2.00
Indiana .....	2.98	3.41	2.41	2.77	2.99	3.06	2.88	2.74
Iowa .....	3.14	3.26	2.67	2.70	3.28	2.89	2.79	2.73
Kansas .....	2.20	2.21	1.58	2.06	2.11	2.14	2.00	1.80
Kentucky .....	3.19	3.54	3.03	2.87	2.96	2.83	3.13	3.20
Louisiana .....	2.64	3.06	1.83	2.44	2.65	2.45	2.18	2.10
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	2.79	3.43	2.33	2.35	2.69	2.98	3.14	4.18
Massachusetts .....	2.92	3.58	2.02	2.81	2.92	2.84	2.54	2.64
Michigan .....	0.69	0.80	0.67	0.96	0.84	0.42	0.61	0.69
Minnesota .....	2.35	2.24	1.78	2.43	2.34	2.30	2.34	2.17
Mississippi .....	2.57	3.22	1.73	2.46	2.52	2.37	2.27	2.08
Missouri .....	2.51	2.58	1.60	2.39	2.44	2.74	2.77	2.26
Montana .....	3.69	6.54	7.02	1.37	9.35	13.57	2.87	4.08
Nebraska .....	2.26	1.93	1.75	2.32	2.00	1.89	1.89	2.29
Nevada .....	2.04	1.99	1.68	1.98	2.09	1.99	2.02	2.05
New Hampshire .....	2.72	—	1.90	2.74	2.72	2.68	—	—
New Jersey .....	2.88	3.13	2.06	2.80	2.85	2.76	2.69	2.57
New Mexico .....	2.54	2.08	1.53	2.46	2.38	2.39	2.07	2.01
New York .....	2.74	3.17	2.12	2.58	2.65	2.62	2.53	2.56
North Carolina .....	3.03	3.11	2.40	3.12	2.87	2.64	2.79	—
North Dakota .....	3.81	2.91	3.74	4.00	—	4.14	3.98	2.93
Ohio .....	3.34	3.37	2.19	3.10	3.20	4.13	4.06	4.03
Oklahoma .....	2.88	3.01	2.30	2.37	2.63	2.91	2.57	2.88
Oregon .....	1.57	1.25	1.35	1.35	1.57	—	—	1.40
Pennsylvania .....	2.76	3.46	2.17	2.54	3.04	2.57	2.31	2.72
Rhode Island .....	3.18	2.29	1.93	2.98	3.21	3.09	2.82	2.90
South Carolina .....	4.01	4.07	1.82	4.35	3.51	3.84	3.87	2.84
South Dakota .....	—	2.36	1.64	—	—	—	—	—
Tennessee .....	—	1.20	0.79	—	—	—	—	—
Texas .....	2.55	2.48	1.90	2.39	2.46	2.34	2.14	2.12
Utah .....	1.95	4.10	2.84	1.86	4.82	—	—	—
Vermont .....	3.05	3.17	1.94	2.95	—	2.83	2.27	2.61
Virginia .....	2.75	3.02	2.83	2.58	2.93	3.05	2.71	2.76
Washington .....	6.68	5.90	4.76	4.83	3.83	7.21	5.93	65.04
West Virginia .....	4.03	3.56	3.87	3.79	3.23	3.22	3.63	3.82
Wisconsin .....	2.96	2.90	2.08	3.12	2.81	2.58	2.46	2.33
Wyoming .....	12.28	11.91	7.25	20.44	4.00	11.82	24.02	22.85
<b>Total .....</b>	<b>2.60</b>	<b>2.70</b>	<b>2.00</b>	<b>2.44</b>	<b>2.52</b>	<b>2.41</b>	<b>2.30</b>	<b>2.30</b>

See footnotes at end of table.

**Table 23. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers,  
by State, 1996-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1997		1996					
	February	January	Total	December	November	October	September	August
Alabama .....	2.04	4.37	2.95	4.32	3.16	2.27	2.14	2.66
Alaska .....	1.69	1.68	1.45	1.64	1.63	1.73	1.71	1.66
Arizona .....	4.01	5.70	3.03	7.53	4.76	2.53	2.98	2.61
Arkansas .....	1.92	4.18	2.52	3.88	2.62	1.36	1.89	2.47
California .....	4.14	4.67	2.75	4.55	3.40	2.60	2.51	2.63
Colorado .....	3.32	3.76	2.09	4.30	2.93	2.47	1.54	1.72
Connecticut .....	3.08	3.97	2.76	4.97	3.26	2.78	2.30	2.78
Delaware .....	2.90	4.87	3.13	4.06	3.65	2.32	2.32	2.35
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	2.13	4.60	3.12	4.75	3.38	2.56	2.59	2.99
Georgia .....	8.15	2.08	2.88	6.28	2.50	3.08	2.72	2.51
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	2.93	3.34	2.62	3.82	3.10	2.12	1.98	2.25
Indiana .....	3.74	5.04	3.48	4.80	3.86	3.38	2.99	2.95
Iowa .....	3.74	5.11	3.23	3.77	3.45	2.95	1.80	2.87
Kansas .....	2.92	4.56	2.25	4.10	2.62	1.88	1.81	2.35
Kentucky .....	3.69	4.85	3.49	4.64	3.51	2.82	2.59	3.05
Louisiana .....	2.93	4.35	2.94	4.37	3.12	2.25	2.16	2.64
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	5.75	5.04	3.11	5.92	4.02	2.65	2.85	2.49
Massachusetts .....	3.29	5.37	3.07	4.85	3.85	2.69	2.33	2.71
Michigan .....	0.59	0.56	0.74	0.55	0.73	0.55	0.59	0.91
Minnesota .....	3.35	2.26	2.18	2.32	2.19	2.14	2.14	2.10
Mississippi .....	2.61	4.15	2.78	4.27	3.23	2.10	2.00	2.52
Missouri .....	4.62	5.41	2.58	4.90	2.61	2.38	2.24	2.41
Montana .....	9.68	3.54	2.89	1.81	1.66	0.65	6.59	6.79
Nebraska .....	3.20	3.22	2.07	4.37	2.85	1.85	1.81	2.16
Nevada .....	2.33	2.14	2.12	2.19	2.37	2.71	1.96	2.20
New Hampshire .....	—	—	—	—	—	—	—	—
New Jersey .....	3.60	4.65	2.96	4.39	3.16	2.36	2.42	2.79
New Mexico .....	2.85	4.07	2.31	3.80	2.94	2.17	1.94	2.33
New York .....	3.35	4.36	2.96	4.22	3.39	2.37	2.26	2.74
North Carolina .....	—	6.89	3.11	4.41	4.20	2.55	2.80	3.31
North Dakota .....	—	—	2.93	2.81	3.92	2.94	—	3.32
Ohio .....	4.16	3.87	3.44	4.27	3.92	2.96	2.80	2.70
Oklahoma .....	4.36	4.21	2.98	4.43	3.61	2.93	2.38	2.64
Oregon .....	—	1.96	1.33	2.01	1.42	1.42	1.27	1.24
Pennsylvania .....	2.91	4.65	2.85	4.57	3.31	2.70	1.67	2.63
Rhode Island .....	4.09	3.18	2.29	3.14	2.34	1.81	1.78	2.32
South Carolina .....	4.22	6.95	4.56	5.08	4.47	5.32	4.01	4.67
South Dakota .....	—	—	2.36	—	—	—	—	—
Tennessee .....	—	—	2.61	—	—	—	—	—
Texas .....	2.85	3.89	2.51	3.80	2.82	2.23	2.10	2.45
Utah .....	—	—	1.83	—	—	—	1.50	1.67
Vermont .....	3.60	5.05	3.22	4.42	3.37	2.68	2.70	3.15
Virginia .....	1.80	3.13	2.98	3.42	2.04	3.77	2.93	2.83
Washington .....	4.50	5.11	4.98	4.75	5.03	4.35	4.01	4.98
West Virginia .....	7.68	3.15	2.99	2.94	2.87	3.69	—	3.28
Wisconsin .....	3.42	4.74	3.04	4.29	3.48	2.55	2.38	2.87
Wyoming .....	2.47	13.99	12.59	26.41	17.57	17.64	3.19	7.72
<b>Total .....</b>	<b>2.98</b>	<b>4.04</b>	<b>2.69</b>	<b>3.98</b>	<b>3.04</b>	<b>2.37</b>	<b>2.24</b>	<b>2.57</b>

See footnotes at end of table.

**Table 23. Average Price of Natural Gas Delivered to Electric Utility<sup>a</sup> Consumers, by State, 1996-1997**

(Dollars per Thousand Cubic Feet) — Continued

State	1996							1995
	July	June	May	April	March	February	January	Total
Alabama .....	3.04	2.71	2.59	3.10	3.29	2.82	3.71	2.01
Alaska .....	1.58	1.47	1.04	1.16	1.30	1.29	1.32	1.29
Arizona .....	3.09	3.33	4.43	2.30	2.31	3.19	2.71	1.77
Arkansas .....	2.57	2.40	2.30	2.54	2.71	7.11	2.02	1.74
California .....	2.32	2.41	2.59	2.49	2.83	3.16	2.68	2.28
Colorado .....	2.32	1.52	1.85	2.06	1.79	1.83	1.80	1.74
Connecticut .....	3.01	2.69	2.62	2.79	—	—	—	2.01
Delaware .....	3.39	3.01	3.19	4.14	2.89	4.63	4.63	2.34
District of Columbia .....	—	—	—	—	—	—	—	—
Florida .....	3.28	3.09	2.91	3.18	3.50	2.83	3.87	2.26
Georgia .....	2.23	3.25	3.80	5.05	5.18	4.90	7.30	2.79
Hawaii .....	—	—	—	—	—	—	—	—
Idaho .....	—	—	—	—	—	—	—	—
Illinois .....	2.70	2.60	2.43	3.03	3.12	3.24	3.19	1.71
Indiana .....	3.14	3.32	3.21	3.40	3.85	3.98	3.39	2.49
Iowa .....	2.83	2.55	2.64	3.82	5.45	3.44	3.36	2.72
Kansas .....	2.19	2.16	2.13	2.45	2.18	2.46	2.28	1.58
Kentucky .....	3.36	3.15	3.78	3.40	3.72	3.57	3.96	3.01
Louisiana .....	2.96	2.72	2.63	2.99	3.25	4.04	3.72	1.88
Maine .....	—	—	—	—	—	—	—	—
Maryland .....	3.25	3.12	3.13	3.97	5.72	6.54	6.01	2.24
Massachusetts .....	3.37	3.03	3.08	3.62	4.17	3.70	6.47	2.06
Michigan .....	0.73	0.88	0.90	0.71	0.83	0.90	0.65	0.73
Minnesota .....	2.14	2.09	2.36	2.63	2.43	2.13	2.10	1.77
Mississippi .....	2.85	2.64	2.49	2.95	3.50	8.16	4.08	1.78
Missouri .....	2.63	2.50	2.42	2.20	3.37	3.12	3.11	1.69
Montana .....	3.49	4.69	5.95	8.98	20.05	3.68	1.86	3.84
Nebraska .....	2.27	1.74	1.58	1.94	2.39	2.19	1.96	1.65
Nevada .....	1.83	2.06	1.90	2.08	2.14	2.22	1.99	1.71
New Hampshire .....	—	—	—	—	—	—	—	1.86
New Jersey .....	3.15	3.14	3.37	3.50	3.67	2.85	2.76	2.18
New Mexico .....	2.01	1.99	2.04	2.17	2.23	2.16	2.07	1.57
New York .....	3.06	2.89	2.80	3.35	3.72	3.91	4.49	2.13
North Carolina .....	3.51	2.93	2.66	3.23	—	—	3.07	2.40
North Dakota .....	2.71	2.81	2.91	—	—	—	3.58	3.71
Ohio .....	3.18	3.51	2.99	3.48	3.74	3.54	3.94	2.34
Oklahoma .....	2.70	2.72	2.95	3.15	3.35	4.13	3.13	2.34
Oregon .....	1.25	—	—	—	—	—	—	1.31
Pennsylvania .....	3.52	2.74	3.38	2.64	3.61	5.41	4.57	2.04
Rhode Island .....	2.27	2.13	2.10	2.36	2.37	2.45	2.38	1.90
South Carolina .....	3.94	3.69	4.75	4.44	4.72	4.35	4.23	1.64
South Dakota .....	2.36	—	—	—	—	—	—	1.58
Tennessee .....	—	—	—	—	—	—	—	—
Texas .....	2.63	2.46	2.35	2.48	2.35	2.60	2.48	1.93
Utah .....	1.57	2.39	—	—	—	20.25	—	2.26
Vermont .....	3.45	3.17	—	2.72	—	—	3.06	1.95
Virginia .....	3.36	3.14	3.61	1.51	3.09	1.99	2.41	2.67
Washington .....	6.14	5.52	4.05	4.22	5.51	4.90	4.98	4.60
West Virginia .....	3.35	3.31	2.82	3.00	2.70	2.75	5.00	3.58
Wisconsin .....	2.97	2.56	2.71	3.01	4.19	2.88	2.64	2.23
Wyoming .....	3.19	6.99	3.44	30.24	18.59	23.99	6.80	8.32
<b>Total .....</b>	<b>2.69</b>	<b>2.59</b>	<b>2.52</b>	<b>2.68</b>	<b>2.73</b>	<b>3.07</b>	<b>2.87</b>	<b>2.02</b>

<sup>a</sup> Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

— = Not Applicable.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Sources: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

**Table 24. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997**

State	YTD 1997		YTD 1996		YTD 1995		1997	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	August	
							Commercial	Industrial
Alabama .....	57.0	17.8	83.1	23.1	81.9	23.8	25.1	17.4
Alaska .....	64.5	96.8	67.0	62.4	83.3	52.9	55.0	92.8
Arizona .....	84.9	23.5	85.8	20.6	88.7	26.3	78.7	30.1
Arkansas .....	94.4	10.8	95.4	13.0	95.9	14.0	91.4	7.9
California .....	51.7	10.2	56.4	10.5	54.9	13.5	41.5	7.7
Colorado .....	NA	NA	93.4	NA	94.9	24.1	NA	NA
Connecticut .....	85.5	67.6	88.8	90.5	80.4	83.8	80.1	62.1
Delaware .....	100.0	31.3	100.0	40.8	100.0	68.5	100.0	27.5
District of Columbia .....	60.5	—	76.4	—	78.6	—	38.8	—
Florida .....	97.1	6.6	97.2	13.7	97.6	16.1	97.3	6.1
Georgia .....	88.4	16.6	95.2	33.1	93.1	34.5	80.1	15.7
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	87.2	2.4	87.7	1.4	87.2	2.6	82.9	1.4
Illinois .....	54.7	10.3	54.5	13.4	50.3	10.9	39.4	5.3
Indiana .....	72.6	13.2	96.8	17.3	86.9	14.1	74.7	7.8
Iowa .....	88.5	6.8	88.9	7.5	89.4	7.5	84.5	6.5
Kansas .....	67.0	9.4	70.5	7.4	73.4	11.8	53.1	7.0
Kentucky .....	89.2	16.2	91.3	30.1	88.6	25.7	79.1	11.5
Louisiana .....	91.3	NA	98.2	10.3	98.1	29.9	99.2	7.0
Maine .....	100.0	92.2	100.0	91.2	100.0	100.0	100.0	88.6
Maryland .....	NA	NA	NA	13.9	97.3	15.1	NA	NA
Massachusetts .....	62.4	20.0	79.5	27.8	87.2	32.2	39.1	22.4
Michigan .....	64.1	7.0	68.0	9.6	66.4	9.3	39.8	3.9
Minnesota .....	98.4	41.8	97.1	41.0	94.1	33.0	98.3	37.0
Mississippi .....	NA	NA	97.6	41.6	97.2	42.4	NA	NA
Missouri .....	80.7	21.3	83.5	25.0	84.6	23.3	68.7	16.7
Montana .....	90.9	3.3	92.0	3.4	92.0	3.1	87.4	2.0
Nebraska .....	NA	23.0	NA	20.6	76.3	16.0	NA	15.0
Nevada .....	72.6	2.0	76.0	1.7	78.3	1.8	63.1	7.0
New Hampshire .....	94.9	57.7	97.8	56.5	99.4	62.9	88.1	47.1
New Jersey .....	68.8	49.2	75.5	56.7	88.6	54.0	59.0	44.0
New Mexico .....	65.9	13.0	63.0	2.3	60.3	3.3	53.2	18.3
New York .....	NA	NA	NA	10.6	76.2	13.3	NA	NA
North Carolina .....	93.4	35.7	97.9	65.8	91.3	43.2	84.4	24.2
North Dakota .....	89.3	43.6	88.8	17.8	81.4	17.9	68.8	28.1
Ohio .....	67.2	4.3	71.7	7.6	76.5	7.7	59.9	2.0
Oklahoma .....	86.9	4.9	85.4	6.8	86.8	18.1	73.6	3.0
Oregon .....	98.7	16.8	98.4	20.1	98.2	26.1	98.3	12.4
Pennsylvania .....	63.9	14.3	74.4	19.3	72.6	16.5	64.5	12.5
Rhode Island .....	84.5	18.4	97.3	18.0	100.0	11.2	67.9	39.6
South Carolina .....	97.7	77.1	99.4	85.8	95.9	80.9	96.4	57.3
South Dakota .....	84.9	22.5	84.3	27.9	87.7	27.4	72.1	12.7
Tennessee .....	NA	NA	95.6	50.3	93.4	45.7	80.4	19.8
Texas .....	60.6	17.3	NA	NA	69.4	28.1	52.3	14.1
Utah .....	83.3	8.9	81.9	8.9	82.4	11.3	71.7	7.9
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	76.7	11.3	87.0	18.2	84.1	14.6	64.6	4.9
Washington .....	NA	NA	86.3	25.6	93.1	36.0	NA	NA
West Virginia .....	53.5	12.0	56.2	14.7	51.3	14.1	21.6	11.2
Wisconsin .....	NA	NA	92.4	38.8	91.9	48.2	NA	17.3
Wyoming .....	NA	NA	NA	NA	92.0	2.9	NA	NA
<b>Total</b> .....	66.5	15.7	79.1	20.0	77.5	24.5	53.8	13.0

See footnotes at end of table.

**Table 24. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1997							
	July		June		May		April	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	22.8	17.3	49.5	17.2	55.5	18.0	59.3	17.3
Alaska .....	59.5	91.4	60.0	99.0	63.8	99.0	65.8	98.8
Arizona .....	79.7	31.3	82.7	18.7	86.1	18.1	83.8	21.2
Arkansas .....	89.9	9.3	90.7	10.2	91.4	11.3	93.5	10.9
California .....	45.6	7.8	48.2	8.9	49.5	13.0	51.6	10.6
Colorado .....	NA	NA	NA	NA	NA	NA	95.0	25.2
Connecticut .....	72.8	63.5	77.1	63.7	79.7	65.6	87.1	68.2
Delaware .....	100.0	27.5	100.0	28.2	100.0	34.4	100.0	35.6
District of Columbia .....	43.9	—	46.7	—	53.7	—	100.0	—
Florida .....	96.9	5.7	97.6	6.8	97.7	6.4	97.8	7.0
Georgia .....	79.1	17.4	82.7	13.4	83.9	12.9	87.2	15.9
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	83.2	5.2	83.3	2.3	86.5	2.5	86.1	2.1
Illinois .....	45.8	3.4	54.8	14.7	47.4	13.8	53.1	8.4
Indiana .....	<sup>R</sup> 72.4	<sup>R</sup> 9.0	39.6	9.2	38.3	9.6	82.1	10.6
Iowa .....	75.0	5.3	90.1	5.1	83.2	5.4	90.3	7.2
Kansas .....	59.1	5.4	56.3	4.8	58.3	13.9	66.1	12.6
Kentucky .....	82.9	12.4	87.7	14.1	85.3	15.7	88.2	14.9
Louisiana .....	98.8	NA	98.6	7.6	98.5	8.4	98.1	7.4
Maine .....	100.0	100.0	100.0	88.5	100.0	91.2	100.0	91.3
Maryland .....	NA	NA	NA	NA	NA	NA	NA	NA
Massachusetts .....	43.6	23.6	46.1	32.3	67.1	41.7	72.2	38.5
Michigan .....	54.7	5.8	44.8	5.4	57.7	7.8	65.3	10.4
Minnesota .....	98.4	47.2	97.0	37.7	97.8	39.3	98.0	42.6
Mississippi .....	NA	NA	91.5	35.9	96.7	39.8	92.4	35.4
Missouri .....	68.9	18.6	71.5	18.5	76.9	24.1	80.7	16.7
Montana .....	90.4	1.7	88.7	2.2	90.2	2.1	91.1	4.5
Nebraska .....	NA	41.8	61.9	18.7	NA	21.4	NA	19.0
Nevada .....	73.2	10.2	61.0	9.9	65.7	7.4	69.2	8.0
New Hampshire .....	87.0	51.4	90.7	55.4	91.6	75.1	92.0	62.3
New Jersey .....	55.6	26.5	60.8	26.3	56.5	28.5	64.0	36.9
New Mexico .....	53.5	18.5	43.1	8.1	59.5	10.9	58.1	2.8
New York .....	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina .....	84.6	20.4	97.5	40.8	89.3	21.7	87.5	22.4
North Dakota .....	46.5	45.7	80.8	28.9	88.7	36.5	91.9	39.4
Ohio .....	58.7	2.0	55.9	2.0	58.0	3.2	64.8	3.3
Oklahoma .....	79.0	3.8	79.2	2.1	82.0	4.1	86.3	3.7
Oregon .....	98.3	13.8	98.1	17.3	98.5	16.7	98.5	19.3
Pennsylvania .....	<sup>R</sup> 54.5	9.7	54.7	13.1	48.0	13.3	64.7	14.1
Rhode Island .....	71.1	41.7	72.4	48.1	80.8	48.5	88.5	55.8
South Carolina .....	99.9	71.9	91.0	89.0	100.0	87.0	95.8	77.7
South Dakota .....	78.3	12.0	83.7	10.7	80.7	17.3	85.7	22.6
Tennessee .....	80.7	24.4	NA	NA	86.7	29.6	90.4	28.1
Texas .....	50.6	14.2	56.6	19.1	56.5	18.1	59.2	20.1
Utah .....	72.8	8.2	77.0	9.4	78.8	9.0	83.8	9.2
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	62.9	5.5	65.3	8.1	72.2	6.5	72.6	12.2
Washington .....	NA	NA	79.8	25.5	80.7	21.0	83.1	26.8
West Virginia .....	23.2	11.8	29.1	11.3	43.8	11.4	49.6	7.1
Wisconsin .....	91.3	17.5	NA	NA	NA	22.1	NA	NA
Wyoming .....	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total .....</b>	<sup>R</sup> 55.6	13.5	57.2	15.2	59.7	15.6	66.4	16.0

See footnotes at end of table.

**Table 24. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1997						1996	
	March		February		January		Total	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	76.2	17.9	79.7	19.5	77.7	17.7	81.1	22.6
Alaska .....	59.4	98.6	71.1	97.9	69.5	97.1	63.4	64.3
Arizona .....	86.5	22.8	87.8	24.7	87.4	19.9	85.2	19.7
Arkansas .....	94.9	12.1	96.6	13.6	96.1	12.9	95.0	13.3
California .....	54.5	11.0	58.5	11.3	58.0	11.3	54.9	11.2
Colorado .....	NA	NA	NA	NA	NA	NA	93.2	7.4
Connecticut .....	87.0	68.2	90.2	78.8	90.1	76.0	87.0	84.6
Delaware .....	100.0	32.7	100.0	34.0	100.0	28.8	100.0	37.3
District of Columbia .....	59.9	—	62.8	—	67.9	—	70.5	—
Florida .....	97.0	6.7	96.6	8.0	96.1	8.2	97.1	13.4
Georgia .....	88.9	15.7	92.7	21.1	93.7	20.0	94.1	32.2
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	87.8	2.1	89.7	2.2	87.8	1.9	86.6	1.4
Illinois .....	54.4	10.3	54.3	9.8	62.0	14.6	53.9	13.7
Indiana .....	86.5	12.7	93.0	19.8	93.7	20.1	96.3	16.6
Iowa .....	88.5	7.4	89.4	7.2	90.3	9.6	87.7	9.0
Kansas .....	60.1	11.4	65.7	13.2	86.2	8.2	71.7	7.7
Kentucky .....	89.6	15.5	90.8	19.4	91.9	22.1	90.8	27.1
Louisiana .....	71.7	10.5	98.4	8.6	88.0	9.5	98.3	10.6
Maine .....	100.0	91.8	100.0	100.0	100.0	100.0	100.0	91.0
Maryland .....	NA	NA	NA	NA	NA	NA	91.9	11.7
Massachusetts .....	70.9	34.4	67.3	36.8	67.3	48.6	74.7	41.9
Michigan .....	66.4	12.8	69.4	14.2	69.2	14.0	66.9	12.5
Minnesota .....	99.0	47.3	98.7	45.5	98.6	37.1	96.2	41.3
Mississippi .....	95.8	36.5	96.3	37.6	96.9	38.4	97.4	41.7
Missouri .....	83.9	27.3	79.9	19.5	86.3	28.3	82.2	24.7
Montana .....	90.4	4.1	93.0	4.1	90.9	4.4	91.5	3.4
Nebraska .....	70.8	21.8	92.8	27.0	77.6	28.9	70.0	20.4
Nevada .....	78.1	7.3	79.7	15.2	77.2	8.3	74.2	7.2
New Hampshire .....	94.0	53.6	99.1	52.1	98.8	44.2	96.9	55.4
New Jersey .....	68.5	30.3	93.5	36.0	70.6	35.9	73.3	53.6
New Mexico .....	70.5	3.9	72.5	2.1	74.0	19.4	64.7	3.5
New York .....	NA	NA	NA	NA	NA	NA	77.0	14.7
North Carolina .....	91.6	30.2	95.9	39.6	100.0	90.1	96.5	59.4
North Dakota .....	91.4	59.4	93.9	49.5	93.4	43.3	88.0	26.5
Ohio .....	69.2	5.5	68.5	5.6	72.5	8.4	71.8	7.4
Oklahoma .....	88.1	5.9	90.5	8.7	90.7	7.4	84.5	6.6
Oregon .....	98.8	19.6	98.9	20.2	98.8	17.0	98.3	18.0
Pennsylvania .....	64.3	15.4	69.8	14.9	69.3	18.9	70.4	18.5
Rhode Island .....	82.2	61.7	91.7	45.9	89.6	38.1	91.8	16.9
South Carolina .....	97.4	80.3	98.2	78.2	100.0	86.8	99.0	85.8
South Dakota .....	86.3	26.7	85.7	30.4	86.9	31.4	82.7	24.6
Tennessee .....	NA	NA	92.5	28.7	94.0	35.9	94.3	47.0
Texas .....	66.7	17.3	67.8	17.1	65.4	19.2	83.5	20.2
Utah .....	83.0	6.7	87.2	10.8	86.2	10.2	81.9	9.0
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	77.0	13.2	81.6	6.8	87.5	15.5	85.3	18.0
Washington .....	86.0	27.3	86.7	26.8	87.8	26.7	85.9	24.4
West Virginia .....	60.3	19.7	67.8	14.8	67.8	14.4	56.3	14.3
Wisconsin .....	94.2	28.6	93.4	31.0	94.5	31.7	91.6	36.4
Wyoming .....	58.4	NA	75.2	NA	76.1	NA	85.9	2.9
<b>Total .....</b>	<b>68.7</b>	<b>16.3</b>	<b>72.2</b>	<b>16.7</b>	<b>72.6</b>	<b>18.5</b>	<b>77.6</b>	<b>20.2</b>

See footnotes at end of table.



**Table 24. Percentage of Total Deliveries Represented by Onsystem Sales, by State,  
1995-1997 — Continued**

State	1996							
	December		November		October		September	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	80.7	22.4	73.2	22.6	71.2	20.4	73.1	20.8
Alaska .....	61.8	68.0	58.2	71.3	54.2	64.8	50.7	67.0
Arizona .....	84.1	19.9	84.1	18.2	83.2	16.8	83.5	16.7
Arkansas .....	95.7	13.8	94.1	13.6	90.2	13.6	92.7	11.3
California .....	56.1	9.9	57.9	10.8	44.1	9.3	45.3	9.9
Colorado .....	94.3	7.1	92.8	8.3	89.1	9.7	90.6	9.2
Connecticut .....	87.9	80.1	84.0	74.8	81.3	71.9	68.9	71.2
Delaware .....	100.0	30.8	100.0	32.5	100.0	30.7	100.0	27.6
District of Columbia .....	65.3	—	55.1	—	48.0	—	46.9	—
Florida .....	96.1	12.5	97.0	11.1	97.4	12.2	97.6	10.1
Georgia .....	93.2	31.6	92.2	26.7	90.6	28.9	86.6	35.0
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	87.6	2.6	84.9	0.5	77.3	1.7	80.0	1.3
Illinois .....	56.1	22.5	53.0	13.7	48.8	8.6	43.2	6.4
Indiana .....	97.4	21.4	96.1	16.3	91.5	11.7	86.8	9.2
Iowa .....	87.2	11.7	86.6	18.4	81.8	9.8	77.0	5.6
Kansas .....	71.6	8.3	82.4	6.9	70.0	9.2	72.8	9.4
Kentucky .....	91.9	24.1	88.9	21.5	88.9	20.9	84.3	18.6
Louisiana .....	98.0	11.3	98.3	NA	98.6	NA	98.9	10.2
Maine .....	100.0	90.2	100.0	91.5	100.0	91.3	100.0	89.1
Maryland .....	93.2	19.7	92.2	2.1	87.3	3.7	87.0	1.6
Massachusetts .....	68.9	33.8	62.5	45.3	69.5	39.6	55.4	34.6
Michigan .....	70.2	15.8	67.2	12.7	55.8	8.1	44.6	5.5
Minnesota .....	95.6	44.5	94.8	44.1	92.4	41.2	90.3	35.8
Mississippi .....	96.9	44.1	96.7	44.8	96.0	39.1	97.2	40.0
Missouri .....	84.6	33.1	78.6	27.7	69.3	17.0	67.3	18.2
Montana .....	92.7	4.3	91.6	4.4	87.5	2.8	86.1	2.1
Nebraska .....	76.6	23.5	68.6	23.3	40.3	15.2	66.2	17.0
Nevada .....	74.9	7.8	70.8	7.4	64.0	5.2	67.6	5.3
New Hampshire .....	96.1	45.4	93.6	59.3	94.3	53.7	96.0	53.7
New Jersey .....	70.2	35.5	69.4	52.7	67.2	48.2	61.8	53.2
New Mexico .....	71.8	13.3	68.5	4.8	63.5	2.6	61.3	2.0
New York .....	NA	13.1	NA	11.4	NA	11.3	NA	12.5
North Carolina .....	99.0	91.6	92.0	49.7	85.7	26.7	86.1	24.7
North Dakota .....	91.0	43.9	89.7	49.6	79.9	36.2	69.1	21.1
Ohio .....	74.0	10.0	72.4	7.8	68.5	3.7	65.1	4.3
Oklahoma .....	87.6	7.1	82.1	7.6	73.0	4.7	72.7	4.8
Oregon .....	98.6	16.0	98.3	14.4	97.0	14.1	97.6	14.2
Pennsylvania .....	61.0	22.3	63.3	16.6	59.7	13.5	66.3	13.8
Rhode Island .....	89.1	12.4	87.3	17.4	66.5	18.3	49.9	13.2
South Carolina .....	100.0	89.3	97.4	85.8	96.4	83.4	97.3	84.5
South Dakota .....	82.8	23.5	80.6	24.2	72.9	10.4	69.4	7.9
Tennessee .....	95.3	42.8	92.8	40.6	87.3	45.0	80.8	36.2
Texas .....	87.1	17.5	84.2	16.5	NA	20.2	77.9	19.4
Utah .....	84.4	9.7	81.2	9.3	79.5	9.4	78.4	8.3
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	88.1	22.1	84.8	21.4	74.3	11.1	65.5	11.9
Washington .....	87.4	27.2	84.6	22.2	82.7	19.8	81.5	20.4
West Virginia .....	71.3	14.4	54.5	14.8	43.4	13.3	34.7	12.0
Wisconsin .....	91.8	34.5	90.9	34.6	87.1	29.9	82.4	26.6
Wyoming .....	69.0	3.1	81.1	0.8	70.5	0.9	98.7	4.0
<b>Total</b> .....	<b>78.4</b>	<b>20.7</b>	<b>76.1</b>	<b>19.0</b>	<b>68.8</b>	<b>18.1</b>	<b>66.9</b>	<b>17.6</b>

See footnotes at end of table.

**Table 24. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1996							
	August		July		June		May	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	72.5	19.6	73.7	20.6	75.4	20.9	80.2	23.1
Alaska .....	53.1	60.9	51.2	55.0	55.0	59.6	59.1	69.5
Arizona .....	78.5	18.0	82.1	17.2	83.6	18.5	84.8	26.0
Arkansas .....	91.6	10.9	88.5	11.0	94.2	11.7	92.4	13.0
California .....	44.7	9.0	48.4	10.4	53.5	10.4	52.6	11.6
Colorado .....	87.1	8.3	88.0	9.0	92.5	6.9	92.4	6.2
Connecticut .....	77.6	78.0	81.1	80.3	78.9	89.3	78.5	91.9
Delaware .....	100.0	26.2	100.0	26.2	100.0	38.3	100.0	31.7
District of Columbia .....	52.1	—	56.4	—	70.5	—	70.4	—
Florida .....	97.2	11.0	97.5	11.5	97.6	12.6	97.8	14.8
Georgia .....	88.1	28.5	88.7	18.9	89.0	23.9	92.2	31.7
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	81.9	1.8	82.4	1.1	86.0	1.8	85.7	1.4
Illinois .....	43.0	5.8	39.6	5.7	44.1	5.1	49.7	9.3
Indiana .....	86.8	9.4	91.6	10.2	88.9	5.0	93.7	30.3
Iowa .....	92.2	8.3	77.2	4.9	86.6	5.4	85.9	5.6
Kansas .....	38.0	7.3	47.5	8.4	57.7	4.7	56.3	9.2
Kentucky .....	85.4	18.1	85.9	25.6	91.1	16.8	84.0	23.2
Louisiana .....	97.5	12.1	99.2	11.1	98.6	10.8	97.5	9.9
Maine .....	100.0	88.0	100.0	88.7	100.0	89.8	100.0	90.1
Maryland .....	85.0	3.7	81.4	6.3	86.8	8.4	86.2	11.1
Massachusetts .....	61.3	39.6	68.1	41.7	71.3	44.1	79.2	40.7
Michigan .....	41.3	6.0	44.2	5.8	46.1	7.2	64.4	10.2
Minnesota .....	95.8	38.6	94.4	38.6	95.4	38.3	97.3	38.5
Mississippi .....	97.9	41.5	97.4	38.3	96.9	40.4	97.4	40.7
Missouri .....	58.1	13.2	62.0	19.4	72.3	23.7	78.7	24.7
Montana .....	87.2	1.4	87.8	1.7	90.8	1.8	90.8	2.7
Nebraska .....	54.1	17.2	51.8	17.8	66.0	14.9	69.8	19.0
Nevada .....	66.7	5.6	69.2	5.8	73.0	6.6	74.2	6.5
New Hampshire .....	94.8	51.4	93.7	52.7	95.6	56.1	98.1	61.9
New Jersey .....	60.0	57.8	62.0	57.4	66.3	48.9	68.8	59.0
New Mexico .....	62.2	3.8	65.7	1.9	65.0	3.8	46.3	3.5
New York .....	NA	12.9	NA	11.9	NA	13.3	NA	14.1
North Carolina .....	88.5	34.7	96.0	64.5	90.7	48.1	91.4	40.2
North Dakota .....	74.5	8.7	77.2	9.1	77.2	8.2	85.1	17.8
Ohio .....	53.9	3.6	56.4	2.9	42.1	3.8	63.1	5.8
Oklahoma .....	69.0	5.4	72.2	4.8	75.5	4.9	78.5	3.1
Oregon .....	98.0	13.6	98.1	13.6	98.3	16.3	98.2	18.1
Pennsylvania .....	66.2	14.8	64.9	15.6	62.7	13.9	67.9	15.7
Rhode Island .....	86.8	14.5	84.1	10.9	92.0	18.1	97.8	21.5
South Carolina .....	97.3	84.7	100.0	90.0	96.9	81.8	97.5	82.9
South Dakota .....	66.9	8.8	67.1	9.9	74.5	7.7	78.7	12.2
Tennessee .....	88.4	40.4	94.5	50.0	90.9	49.1	92.6	44.4
Texas .....	81.1	21.8	82.0	23.1	80.0	20.7	81.5	20.0
Utah .....	71.9	7.5	73.3	7.2	72.9	9.2	77.7	8.8
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	74.0	10.2	68.8	11.2	66.9	14.7	78.5	22.2
Washington .....	80.1	12.0	80.0	21.7	82.0	22.4	84.4	23.8
West Virginia .....	44.4	13.1	43.9	13.0	27.1	12.6	45.3	12.9
Wisconsin .....	83.8	26.0	82.1	26.3	86.1	26.7	89.9	35.7
Wyoming .....	98.3	4.0	99.6	3.2	96.2	3.7	81.0	3.8
<b>Total .....</b>	<b>65.9</b>	<b>18.1</b>	<b>67.3</b>	<b>19.1</b>	<b>69.3</b>	<b>17.6</b>	<b>73.9</b>	<b>19.6</b>

See footnotes at end of table.

**Table 24. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1995-1997 — Continued**

State	1996							
	April		March		February		January	
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama .....	83.8	24.0	84.1	24.0	88.1	28.5	84.6	23.6
Alaska .....	62.5	64.3	76.0	65.6	78.9	70.5	73.4	52.4
Arizona .....	83.7	19.8	86.9	21.3	90.2	23.9	89.6	21.6
Arkansas .....	96.3	14.1	95.6	13.9	97.0	15.9	96.4	15.0
California .....	64.1	12.6	63.7	12.7	59.6	15.6	59.9	14.2
Colorado .....	93.1	6.0	93.8	5.5	95.5	5.9	94.5	8.8
Connecticut .....	89.8	93.9	93.1	96.2	93.1	97.9	93.3	94.5
Delaware .....	100.0	28.5	100.0	57.0	100.0	57.7	100.0	58.3
District of Columbia .....	85.4	—	83.0	—	83.3	—	80.0	—
Florida .....	97.6	15.8	96.7	15.7	96.9	16.0	96.7	17.0
Georgia .....	94.9	35.5	96.9	39.5	98.1	42.7	97.7	43.8
Hawaii .....	100.0	—	100.0	—	100.0	—	100.0	—
Idaho .....	87.2	1.4	88.2	1.5	90.1	1.3	88.8	1.1
Illinois .....	51.7	14.8	57.8	19.6	58.3	19.4	56.9	17.7
Indiana .....	97.4	20.0	97.9	24.5	98.6	26.0	98.1	25.9
Iowa .....	85.8	7.4	88.3	8.2	92.0	8.1	90.5	10.8
Kansas .....	68.5	7.5	77.1	8.9	85.9	7.1	82.2	6.6
Kentucky .....	90.3	33.2	92.1	38.3	92.0	38.8	93.8	38.6
Louisiana .....	99.0	10.9	97.7	9.6	98.4	10.5	97.9	11.5
Maine .....	100.0	86.5	100.0	87.1	100.0	100.0	100.0	100.0
Maryland .....	92.4	18.2	93.7	22.6	96.5	19.8	94.9	21.5
Massachusetts .....	80.2	48.2	82.4	42.1	83.5	45.7	84.7	46.0
Michigan .....	68.5	15.1	73.1	15.7	72.1	18.2	73.7	18.2
Minnesota .....	97.6	50.2	97.2	43.2	97.8	42.8	97.2	36.9
Mississippi .....	97.3	41.8	97.0	43.1	98.1	43.8	98.0	42.8
Missouri .....	84.6	26.2	85.6	24.5	89.9	33.6	87.5	26.7
Montana .....	92.6	3.8	91.9	4.8	93.7	5.5	92.2	4.4
Nebraska .....	77.3	20.6	77.7	22.5	79.1	24.7	83.8	24.7
Nevada .....	76.4	8.3	78.2	8.5	80.5	9.7	79.1	9.7
New Hampshire .....	98.0	58.5	98.3	55.2	98.3	56.0	98.2	59.5
New Jersey .....	73.5	58.4	78.9	64.4	80.5	58.3	81.3	60.8
New Mexico .....	58.5	2.1	60.4	0.6	62.6	0.5	72.3	2.4
New York .....	NA	15.5	NA	21.2	NA	19.1	NA	19.2
North Carolina .....	99.7	79.4	99.9	92.1	99.8	74.2	99.9	94.2
North Dakota .....	88.7	22.4	90.5	18.1	92.1	22.2	91.5	27.1
Ohio .....	72.3	8.0	76.1	9.7	76.1	12.9	77.3	11.1
Oklahoma .....	88.2	8.3	87.0	8.6	89.4	10.8	89.5	8.3
Oregon .....	98.1	23.7	98.6	25.4	98.8	26.6	98.4	26.4
Pennsylvania .....	71.6	18.2	76.7	26.0	77.5	23.5	78.5	23.5
Rhode Island .....	98.2	19.7	98.4	61.9	99.3	46.9	100.0	9.8
South Carolina .....	100.0	89.3	100.0	87.0	100.0	85.1	100.0	85.5
South Dakota .....	85.0	17.1	84.7	60.7	87.9	31.6	89.8	21.7
Tennessee .....	96.9	57.0	93.9	56.6	97.7	51.3	97.7	52.3
Texas .....	84.5	18.6	82.2	20.4	89.5	22.5	87.1	21.5
Utah .....	82.3	9.9	82.8	9.2	85.6	9.7	84.0	9.2
Vermont .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia .....	84.3	21.7	90.9	19.5	95.1	21.6	96.2	22.0
Washington .....	84.4	26.6	87.6	32.0	89.8	31.9	89.1	33.8
West Virginia .....	53.9	13.2	63.0	15.1	64.6	17.1	62.6	19.8
Wisconsin .....	92.0	38.4	94.0	50.3	94.8	45.8	93.9	44.0
Wyoming .....	82.0	3.1	98.0	3.2	98.0	2.7	97.7	3.4
<b>Total</b> .....	<b>79.3</b>	<b>21.4</b>	<b>81.7</b>	<b>23.3</b>	<b>83.8</b>	<b>23.6</b>	<b>83.4</b>	<b>23.1</b>

<sup>R</sup> = Revised Data.

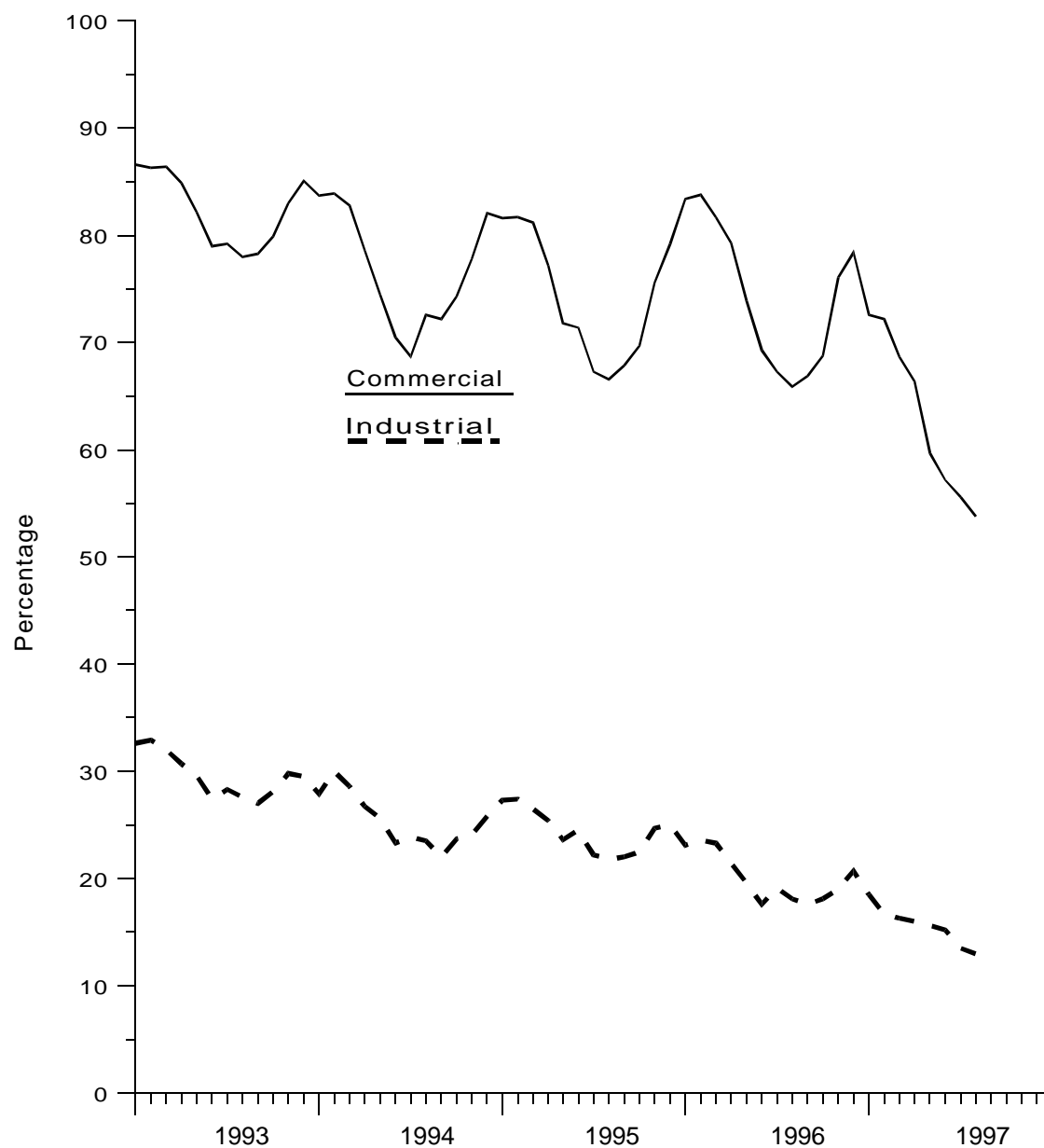
NA = Not Available.

— = Not Applicable.

Notes: Volumes of natural gas reported for the commercial and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percent of the total State volume that represents natural gas sales to the commercial and industrial sectors. This information may be helpful in evaluating commercial and industrial price data which are based on sales data only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Figure 6. Percentage of Total Deliveries Represented by Onsystem Sales, 1993-1997**



Sources: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

## Appendix A

### Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in evaluating the monthly data. There is a brief description of what data are estimated and what data are taken from submitted reports, followed by ten technical notes that provide important information for individual data series.

The monthly data are preliminary when initially published. Data shown in this report for the most current months are taken from the EIA Short-Term Integrated Forecasting System (STIFS) model computations. Each month, EIA staff review the STIFS model estimates and adjust them, if necessary, based on their knowledge of new developments in the natural gas industry. Data for prior months are estimated or taken from submitted reports.

**Table A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data**

Components	Reporting Methodology
<b>Supply and Disposition</b>	
Marketed Production	Reported on Form EIA-895 and Estimated from Historical Data
Extraction Loss	Derived from Marketed Production
Dry Production	Marketed Production minus Extraction Loss
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from Supply Estimates and Coal Gasification Information
Imports	Estimated from National Energy Board of Canada Information and Liquefied Natural Gas Information
Additions to Storage	Reported on Form EIA-191
Exports	Estimated from Industry Trends and Liquefied Natural Gas Information
Current-Month Consumption	Estimated from Historical Month-to-Month Percent Changes
<b>Consumption by Sector</b>	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline Fuel	Derived from Estimates for Lease and Plant Fuel and Deliveries to Consumers
Residential	Estimated from Reports to the Sample Survey Form EIA-857
Commercial	Estimated from Reports to the Sample Survey Form EIA-857
Industrial	Estimated from Reports to the Sample Survey Form EIA-857
Electric Utilities	Reported on Form EIA-759

For data that are not taken from STIFS computations, Table A1 below lists the methodologies for deriving the monthly data to be published.

The STIFS model contains a series of calculations that produce forecasts for all of the energy industry. It is driven primarily by three sets of inputs or assumptions: estimates of key macroeconomic variables, world oil price assumptions, and assumptions about the severity of weather. The natural gas estimates also reflect other key inputs or assumptions including gas wellhead prices, electric power generation by other energy sources, and U.S. gas import capacity. The macroeconomic variable estimates are produced by DRI/McGraw-Hill but are adjusted by EIA to reflect EIA assumptions about the world price of oil, energy product prices, and other assumptions which may affect the macroeconomic outlook. The EIA publishes forecasts for the energy industry each quarter in the *Short-Term Energy Outlook*.

For production, total supply and disposition, and storage data (Tables 1, 2, and 9), the most current two months shown are estimates produced from STIFS computations, and data that are two months or more prior to the date of publication are estimated or taken from submitted reports. For example, in the March issue of the NGM, February and March data are taken from the STIFS model computations while January and prior months data are estimated from available data sources or reported directly on EIA forms. For consumption data by sector (Table 3), the most current three months shown are estimates produced from STIFS computations while data that are three months prior to date of publication are taken from EIA forms.

## **Note 1. Nonhydrocarbon Gases Removed**

### ***Annual Data***

Data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are reported by State agencies on the voluntary Form EIA-895. For 1995, of the 33 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 60 percent of total 1995 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Maryland, Missouri, Nevada, New York, South Dakota, and Virginia. The ten States reporting volumes greater than zero are Alabama, California, Florida, Kentucky, Mississippi, Nebraska, New Mexico, North Dakota, Texas, and Wyoming. In addition,

Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 40 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

### ***Preliminary Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Seven States report monthly data on nonhydrocarbon gases removed: Alabama, Arizona, Mississippi, New Mexico, North Dakota, Oregon and Texas. Monthly data for California, Colorado, Florida, and Wyoming are estimated based on annual data reported on Form EIA-895. Nonhydrocarbon gases as an annual percentage of gross withdrawals reported by each of the six States is applied to each State's monthly gross withdrawal data to produce an estimate of nonhydrocarbon gases removed.

### ***Final Monthly Data***

Beginning with report year 1990, States filing the Form EIA-627, "Annual Quantity and Value of Natural Gas Report," were asked to supply monthly breakdowns of all data previously reported on an annual basis. The sums of the reported figures were used to calculate monthly volumes. In 1997 the Form EIA-627 was discontinued. States were requested to file an annual schedule on the monthly Form EIA-895, "Monthly Quantity and Value of Natural Gas Report."

For States not supplying monthly data on the annual schedule of the EIA-895, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-895 and the sum of monthly data (January-December).

## **Note 2. Supplemental Gaseous Fuels**

### ***Annual Data***

Annual data are published from Form EIA-176.

### ***Preliminary Monthly Data***

All monthly data are considered preliminary until after the publication of the *Natural Gas Annual* for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

### ***Final Monthly Data***

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the revised monthly sum of these three elements to compute final monthly data.

## **Note 3. Production**

### ***Annual Data***

Natural gas production data are collected from 33 gas-producing States on Form EIA-895 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and extraction loss. The U.S. Minerals Management Service (MMS) also supplies data on the quantity and value of natural gas production on the Gulf of Mexico and Outer Continental Shelf. No adjustments are made to the data.

### ***Estimated Monthly Data***

State marketed production data for a particular month are estimated if data are unavailable at the time of publication. The data are estimated based on final monthly data reported on the Form EIA-895 for the previous year.

Estimates for total U.S. marketed production are based on final monthly data reported on the Form EIA-895 for the previous year. State estimates for nonhydrocarbon gas removed, gas used for repressuring,

and gas vented and flared are based on the ratio of the item to gross withdrawals as reported on the EIA-895. These ratios are applied to the month's estimates for gross withdrawals to calculate figures for nonhydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are calculated from final monthly data filed on Form EIA-895 for the previous year.

### ***Preliminary Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Preliminary monthly data are published from reports from the Form EIA-895 and the MMS. Volumetric data are converted, as necessary, to a standard 14.73 psia pressure base. Data are revised as Table 7 monthly data are updated.

### ***Final Monthly Data***

Final monthly data for 1993, 1994, and 1995 are the sums of monthly data reported on the annual Form EIA-627, "Annual Quantity and Value of Natural Gas Report." For prior years, the differences between each State's annual production data reported on the EIA-627 and the sum of its monthly IOGCC reports for the year were allocated proportionally to the monthly IOGCC data.

## **Note 4. Imports and Exports**

### ***Annual Data and Final Monthly Data***

Annual and final monthly data are published from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, which requires data to be reported each quarter by month for the calendar year.

### ***Preliminary Monthly Data - Imports***

Preliminary monthly import data are based on data from the National Energy Board of Canada and responses to informal industry contacts and EIA estimates. Preliminary data are revised after the publication of the article "U.S. Imports and Exports of Natural Gas" for the calendar year.

## ***Preliminary Monthly Data - Exports***

Preliminary monthly export data are based on historical data from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, informal industry contacts, and information gathered from natural gas industry trade publications. Preliminary monthly data are revised after publication of "U.S. Imports and Exports of Natural Gas" for the calendar year in which the report month falls.

## **Note 5. Consumption**

### ***All Annual Data***

All consumption data except electric utility data are from the Form EIA-857 and Form EIA-176. No adjustments are made to the data. Electric utility data are reported on Form EIA-759.

### ***Monthly Data***

All monthly data are considered preliminary until after publication of the *Natural Gas Annual*.

### ***Total Consumption***

#### **Preliminary Monthly Data**

The most current month estimate is calculated based on the arithmetic average change from the previous month for the previous 3 years. The following month this estimate is revised by summing the components (pipeline fuel, lease and plant fuel, and deliveries to consumers).

#### **Final Monthly Data**

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly total consumption is obtained by summing its components.

### ***Residential, Commercial, and Industrial Sector Consumption***

#### **Preliminary Monthly Data**

Preliminary monthly residential, commercial, and industrial data are from Form EIA-857. See Appendix C, "Statistical Considerations," for a detailed explanation of sample selection and estimation procedures.

## **Average Price of Deliveries to Consumers**

Price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers. These prices do not reflect average prices of natural gas transported to consumers for the account of third parties or "spot-market" prices.

### **Final Monthly Data**

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

### ***Agricultural Use***

Beginning with the reporting of 1996 annual data, the EIA changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. In 1995 and earlier years, consumption of natural gas for agricultural use was classified as commercial use. Separate reports of the volumes affected are not available so the direct impact of this change is not known. Most natural gas consumed in agriculture is used to drive irrigation systems and to dry crops.

For the reporting of monthly data, the customer category will not be changed until 1998. In 1996, the monthly data reported under the old classification were adjusted to the annual data reported under the new classification. Monthly 1997 data will be adjusted in the same way as the 1996 data.

In comparing sectoral use over time, note that:

- There is an inherent shift in natural gas volumes from the commercial to industrial sectors due simply to changes in the reporting requirements. This break in series may indicate a spurious increase in industrial consumption with a corresponding decrease in the commercial sector.
- The sum of natural gas volumes consumed by the commercial and industrial sectors will not be changed by this modification of the instructions.

### ***Electric Utility Sector Consumption***

#### **All Monthly Data**

Monthly data published are from Form EIA-759.



## ***Pipeline Fuel Consumption***

### **Preliminary Monthly Data**

Preliminary data are estimated based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's total consumption figure to compute the monthly estimate.

### **Final Monthly Data**

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised total consumption figure to compute final monthly pipeline fuel consumption estimates.

## ***Lease and Plant Fuel Consumption***

### **Preliminary Monthly Data**

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

### **Final Monthly Data**

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly plant fuel data are based on a revised annual ratio of lease and plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected on the Form EIA-627 and estimates from the Form EIA-176. See the *Natural Gas Annual* for a complete discussion of this process.

## **Note 6. Extraction Loss**

### ***Annual Data***

Extraction loss data are calculated from filings of Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." For a fuller discussion, see the *Natural Gas Annual*.

## ***Preliminary Monthly Data***

Preliminary data are estimated based on extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

### ***Final Monthly Data***

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual extraction loss data to each month based on its total natural gas marketed production.

## **Note 7. Natural Gas Storage**

### ***Underground Natural Gas Storage***

All monthly data concerning underground storage are published from the EIA-191. A new EIA-191 became effective in January 1994. Injection and withdrawal data from the EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the *Natural Gas Annual*.

### ***Underground and Liquefied Natural Gas Storage***

The final monthly and annual storage and withdrawal data for 1991 through 1995 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from the EIA-191 and EIA-176 surveys in the manner described earlier. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

## **Note 8. Average Wellhead Value**

### ***Annual Data***

Form EIA-895 requests State agencies to report the quantity and value of marketed production. When complete data are unavailable, the form instructs the State agency to report the available value and the quan-

tity of marketed production associated with this value. A number of States reported volumes of production and associated values for other than marketed production. In addition, information for several States which were unable to provide data was obtained from Form EIA-176. It should be noted that Form EIA-176 reports a fraction of State production. The imputed value of marketed production in each State is calculated by dividing the State's reported value by its associated production. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

### ***Preliminary Monthly Data***

A preliminary estimate of the U.S. gas price is made each month based on the change in the production-weighted gas price from five States: Kansas, Mississippi, New Mexico, Oklahoma, and Texas. Gas prices for these five States are used because both their gas production and value represent a substantial sample of the U.S. gas production and value (roughly 50 percent), and their prices are readily available and provide a consistent series. The latest preliminary U.S. gas price estimate is calculated by multiplying the preliminary U.S. gas price estimate for the prior month by the ratio of the five States' gas price for the latest month to that of the prior month. This estimate replaces the initial gas price estimate.

### ***Final Monthly Data***

Preliminary monthly gas price data for Kansas, Mississippi, New Mexico, Oklahoma, and Texas are replaced by final monthly data that are adjusted to match the annual prices published in the *Natural Gas Annual* for each State. A revised set of the monthly U.S. gas price estimates are derived based on the monthly change in the production-weighted prices for these five States and adjusted to match the U.S. gas price published in the *Natural Gas Annual*.

## **Note 9. Balancing Item**

The "balancing item" category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents.

### ***Annual Data***

Annual data are from the *Natural Gas Annual*. For an explanation of the methodology involved in calculating annual "balancing item" data, see the *Natural Gas Annual*.

### ***Preliminary Monthly Data***

Preliminary monthly data in the "balancing item" category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total supply/disposition.

## **Note 10. Heating Degree-Days**

Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day data bases maintained by the National Oceanic and Atmospheric Administration. The information published in the *Natural Gas Monthly* is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home customers. The State figures are then aggregated into Census Divisions and into the national average.

## Appendix B

### Data Sources

The data in this publication are taken from survey reports authorized by the U.S. Department of Energy (DOE), Energy Information Administration (EIA) and by the Federal Energy Regulatory Commission (FERC). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The EIA conducts and processes some of the surveys authorized by the FERC. Data are collected from two annual surveys and four monthly surveys.

The annual reports are the Form EIA-176, a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across State lines, and the Form EIA-627, a voluntary survey completed by energy or conservation agencies in the gas-producing States.

The monthly reports include two surveys of the natural gas industry and two surveys of the electric utility industry. The natural gas industry survey is the Form EIA-191 filed by companies that operate underground storage facilities, and the Form EIA-857 filed by a sample of companies that deliver natural gas to consumers. The electric utility industry surveys are the Form EIA-759 filed by all generating electric utilities and the Form FERC-423 filed by fossil fueled plants. Responses to these four monthly surveys are mandatory.

A description of the survey respondents, reporting requirements, and processing and editing of the data is given on the following pages for each of the surveys.

#### **Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"**

##### *Survey Design*

The original version of Form EIA-176 was approved in 1980 with a mandatory response requirement. Prior to 1980, published data were based on voluntary responses to Bureau of Mines, U.S. Department of the Interior predecessor Forms BOM-6-1340-A and BOM-6-1341-A of the same title.

In 1982, the scope of the revised EIA-176 survey was expanded to collect the number of electric utility consumers in each State, volumes of gas transported to industrial and electric utility consumers, detailed information on volumes transported across State borders by the respondent for others and for the responding company, and detailed information on other disposition. These changes were incorporated to provide more complete survey information with a minimal change in respondent burden. The 1982 version of the Form EIA-176 continues to be the basis for the current version of this form.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial and industrial consumers for the account of others. A short version of Form EIA-176 was also approved in 1988. Companies engaged in purchase and delivery activities but not in transportation and storage activities may file the short form. Usually, these companies are municipals handling small volumes of gas.

In 1990, the Form EIA-176 was revised to include more detailed information for gas withdrawn from storage facilities, gas added to storage facilities, deliveries of company-owned natural gas and natural gas transported for the account of others. The revised form was approved for use beginning with report year 1990.

Upon the Office of Management and Budget's approval in 1993, the Form EIA-176 was again revised. All deliveries to consumers are now categorized as firm or interruptible. Commercial and industrial consumers are further categorized as nonutility power producers or as those excluding nonutility power producers.

Data reported on this form are no longer considered proprietary. Response to the form continues to be mandatory.

### ***Survey Universe and Response Statistics***

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies, investor and municipally owned natural gas distributors, underground natural gas storage operators, synthetic natural gas plant operators, and field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and/or that transport gas to, across, or from a State border through field or gathering facilities.

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing in 1996 for report year 1995 totaled 1,991 questionnaire packages. To this original mailing, 11 names were added and 61 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 1,941 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 1,911 responses were entered into the data base, and there were 30 nonrespondents.

### ***Summary of Form EIA-176 Data Reporting Requirements***

The EIA-176 is a multiline schedule for reporting all supplies of natural gas and supplemental gaseous fuels

and their disposition within the State indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by April 1 of the following year. Extensions of the filing deadline for up to 45 days are granted to any respondent on request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

### ***Routine Form EIA-176 Edit Checks***

A series of manual and computerized edit checks are used to screen the Form EIA-176. The edits performed include validity, arithmetic, and analytical checks.

The incoming forms are reviewed prior to keying. This prescan determines if the respondent identification (ID) number and the company name and address are correct, if the data on the form appear complete and reasonable, and if the certifying information is complete.

Manual checks on the data are also made. Each form is prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines is checked at the company level to ensure that each delivery from a State is matched with a corresponding receipt in an adjoining State.

After the data are keyed, computer edit procedures are performed. Edit programs verify the report year, State code, and arithmetic totals. Further tests are made to ensure that all necessary data elements are present and that the data are reasonable and internally consistent. The computerized edit system produces error listings with messages for each failed edit test. When problems occur, respondents are contacted by telephone and required to file amended forms with corrected data.

### ***Other EIA Publications Referencing Form EIA-176***

Data from Form EIA-176 are also published in the *Natural Gas Annual*.

## Form EIA-895, "Monthly Quantity of Natural Gas Report"

### *Survey Design*

In 1996, an annual schedule was added to the Form EIA-895 to replace the Form EIA-627. Data collection on the Form EIA-895 began in January 1995. This form was designed to replace the Interstate Oil and Gas Compact Commission (IOGCC) form, "Monthly Report of Natural Gas Production." In 1994, the IOGCC decided to discontinue collection of their form. All gas producing States are requested to report on the Form EIA-895; a voluntary report. Data are reported by State agencies. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the States. Data are not considered proprietary.

Beginning with 1980, natural gas production data previously obtained on an informal basis from State conservation agencies were collected on Form EIA-627. This form was designed by EIA to collect annual natural gas production data from the appropriate State agencies under a standard data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. The form was redesigned in 1990 to collect monthly breakdowns of all annual data elements. Data are not considered proprietary. It was also designed to avoid duplication of effort in collecting production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators. In 1993, value and associated volume of marketed production by month was added to the EIA-627. In 1996, the Form EIA-627 was discontinued. The information is collected on an annual schedule on the Form EIA-895.

### *Survey Universe and Response Statistics*

Form EIA-895 is mailed to energy or conservation agencies in all 33 natural gas producing States. All producing States participate voluntarily in the EIA-895 survey by filing the completed form or by responding to telephone contacts.

Reports on State production are due 20 days after the end of the report month. (In most cases, the data are not available to the States until after this time period.

Therefore, States are requested to send the report within 80 days after the end of the report month.) The annual schedule of the Form EIA-895 is due with the December data report.

### *Summary of Data Requirements*

The Form EIA-895 monthly schedule consists of nine questions on one page, and requires volumetric information on gross production (gas and oil wells individually), gas used for repressuring, gas vented and flared, nonhydrocarbon gases removed, natural gas used as fuel on leases, marketed production, value based marketed production and the value in dollar amount of the marketed production.

Form EIA-895 annual schedule collects data on the monthly and annual production volume of natural gas (including gross withdrawals from both gas and oil wells); volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on leases; marketed production; the value of marketed production; and the number of producing gas wells.

Respondents are asked to report all volumes in thousand cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

### *Routine Form EIA-895 Edit Checks*

Each filing of Form EIA-895 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported. Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Reasonableness of data is assessed by comparing reported data to the previous year's data. State agencies are contacted by telephone to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

### *Other EIA Publications Referencing Form EIA-895*

Data from Form EIA-895 are also published in the EIA publication, *Natural Gas Annual*.

## **EIA-191 Survey, "Underground Natural Gas Storage Report"**

### ***Survey Design***

The Form EIA-191, "Underground Natural Gas Storage Report," was revised effective January 1994. Among the changes from the form used from 1991 through 1993 are a distinction between a monthly and annual survey. Prior to 1991, data on the storage of natural gas were collected on a survey jointly implemented in 1975 by the Federal Power Commission (FPC), the Federal Energy Administration (FEA), and the Bureau of Mines (BOM) as the FPC-8/ FEA-G-318 system. The data received on both the FPC-8 and FEA-G-318 were computerized and aggregated by FPC. The form was previously revised in 1991 to include storage data by State, field, and reservoir.

At the beginning of 1979, the EIA assumed responsibility for the collection, processing, and publication of the data gathered in the survey. Form FEA-G-318 was renewed on July 1, 1979, as Form EIA-191 and the survey was retitled the FPC-8/EIA-191 Survey (Figure D4 shows the EIA-191). Form FPC-8 was renewed in December 1985 and the survey retitled FERC-8/EIA-191 Survey. The forms were not merged because of FERC's stated desire to maintain the separate identity of the FERC-8 for administrative reasons. In September 1995, the FERC discontinued the reporting requirements of Form FERC-8. FERC jurisdictional firms will continue to file Form EIA-191.

### ***Survey Universe and Response Statistics***

The 103 companies that operate underground facilities will file the Form EIA-191. Of these companies, 42 are subject to the jurisdiction of FERC and are required to report data on Form EIA-191.

The response rate as of the filing deadline is approximately 20 percent. Data from the remaining 80 percent of respondents are received in writing and/or by telephone within 3 to 4 days after the filing deadline. All data supplied by telephone are subsequently filed in writing, generally within 15 days of the filing deadline. The final response rate is 100 percent.

### ***Summary of EIA-191 Data Reporting Requirements***

The EIA-191 monthly schedule contains current month and prior month's data on the total quantities of gas in storage, injections and withdrawals, the location (including State and county, field, reservoir) and peak day withdrawals during the reporting period. Prior month's data are required only when data are revised.

Information on co-owners of storage fields has been eliminated. The annual schedule contains type of facility, storage field capacity, maximum deliverability and pipelines to which each field is connected. The annual schedule is filed with the January submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the first day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are reflected in the prior month section of the monthly form. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

### ***Routine Form EIA-191 Edit Checks***

Data received on Form EIA-191 are entered into the survey processing system. The survey's five principal data elements (total, base, working gas in storage, injections, and withdrawals) receive a preliminary visual edit to eliminate and correct obvious errors or omissions. Respondents are required to refile reports containing any inconsistencies or errors.

### ***Other EIA Publications Referencing Form EIA-191***

The EIA publication *Monthly Energy Review* and *Winter Fuels Report* contain data from the EIA-191 survey.

## **"Quarterly Natural Gas Import and Export Sales and Price Report"**

### ***Survey Design***

The collection of data covering natural gas imports and exports was begun in 1973 by the Federal Power Commission (FPC). On October 1977, FPC ceased to exist and its data collection functions were transferred to the Federal Energy Regulatory Commission (FERC) within the Department of Energy (DOE). From 1979 to 1994, the Energy Information Administration (EIA) has had the responsibility for collecting Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Data are not considered proprietary. The Form FPC-14 was discontinued in 1995.

Beginning in 1995, import and export data are taken from the "Quarterly Natural Gas Import and Export Sales and Price Report." This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas.

### ***Survey Universe and Response Statistics***

All companies are required, as a condition of their authorizations to import or export natural gas, to file quarterly reports with the Office of Fossil Energy. These data are collected as part of its regulatory responsibilities. The data are reported at a monthly level of detail. Data reported on the Form FPC-14 represented physical movements of natural gas. Data collected by the Office of Fossil Energy are reported on an equity (sales) basis. For 1994 and earlier years, comparisons of the data from the two sources may show differences because reporting requirements were different.

Prior to 1995, the Form FPC-14 was filed annually by each organization or individual having authority to import and export natural gas regardless of whether any activity took place during the reporting year. Authorizations to import and export was originally granted by the FPC. In 1977, the authority to grant authorizations transferred to the Economic Regulatory Administration (ERA). It now resides with the Office of Fossil Energy, U.S. Department of Energy.

### ***Routine Edit Checks***

Respondents are required to certify the accuracy of all data reported. The data are checked for reasonableness and accuracy. If errors are found, the companies are required to file corrected data. The data are compared with data reported by the National Energy Board of Canada and are published quarterly. All natural gas volumes in this report are expressed at a pressure base of 14.73 pounds per square inch absolute and temperature of 60 degrees Fahrenheit, except as noted. All import and export prices are in U.S. dollars and, except for LNG exports, are those paid at the U.S. border. LNG export prices are those paid at the point of sale and delivery in Yokohama, Japan.

## **Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"**

### ***Survey Design***

The original Form EIA-857 was approved for use in December 1984. Response to the Form EIA-857 is mandatory on a monthly basis. Data collected on the Form EIA-857 cover the 50 States and the District of Columbia and include both price and volume data. Data are considered proprietary.

### ***Survey Universe and Response Statistics***

A sample of 382 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 States and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 on a monthly basis. Initial response statistics on a monthly basis are as follows: responses received by due date, approximately 50 percent, and responses received after follow-up, 100 percent. Virtually all are received in time for incorporation in the current month's processing cycle. When a response is extremely late, and the company represents less than 25 percent of the natural gas volumes delivered by all sampled companies in the State, values are imputed as described in Appendix C. When the company's submission is eventually received, the submitted data are used for future processing and revisions.

The Form EIA-857 is a monthly sample survey of firms delivering natural gas to consumers. It provides data that are used to estimate monthly sales of natural gas (volume and price) by State and monthly deliveries of natural gas on behalf of others (volume) by State to three consumer sectors - residential, commercial, and industrial. (Monthly deliveries and prices of natural gas to electric utilities are reported on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and the Form EIA-759, "Monthly Power Plant Report.") See Appendix C for a discussion of the sample design and estimation procedures.

### ***Summary of Form EIA-857 Data Reporting Requirements***

Data collected monthly on the Form EIA-857 on a State level include the volume and cost of purchased gas, the volume and cost of natural gas consumed by sector (residential, commercial, and industrial), and the average heat content of all gas consumed. Respondents file completed forms with EIA in Washington, DC on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit and dollar values are reported to the nearest whole dollar.

### ***Routine Form EIA-857 Edit Checks***

A series of manual and computerized edit checks are used to screen the Form EIA-857. The edits performed include validity and analytical checks.



## Appendix C

### Statistical Considerations

The monthly sales (volume and price) and monthly deliveries (volume) of natural gas to residential, commercial and industrial consumers presented in this report by State are estimated from data reported on the Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." (See Appendix B for a description of this Form.) These estimations must be made from the reported data since the Form EIA-857 is a sample survey. A description of the sample design and the estimation procedures is given below.

#### Sample Design

The Form EIA-857 is a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate companies, and producers, as well as local distribution companies. The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by State to three consumer sectors--residential, commercial, and industrial. Monthly deliveries and prices of natural gas to electric utilities are reported on the Form EIA-759, "Monthly Power Plant Report," and the Form FERC-423, "Monthly Report of Costs and Quality of Fuels for Electric Plants."

**Sample Universe.** The sample currently in use was selected from a universe of 1,538 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1995 who reported sales or deliveries to consumers in the residential, commercial or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

**Sampling Plan.** The goal was a sample that would provide estimates of monthly natural gas consumption by the three consuming sectors within each State and the District of Columbia. A stratified sample using a single stage and systematic selection with probability

proportional to size was designed. The measure of size was the volume of natural gas physically delivered in the State to the three consuming sectors by the company in 1995. There were two strata--companies selected with certainty and companies selected under the systematic probability proportional to size design.

Initial calculations showed that a 25 percent sample of companies would yield reasonably accurate estimates. The sample was selected independently in each State, resulting in a national total of 387 respondent companies. Unlike previous years, no mergers or acquisitions were uncovered as a result of the initial mail-out. Therefore there was no need for either substitution of respondent companies or a reduction in the total number of respondents.

**Certainty Stratum.** Since estimates were needed for each of the 50 States and the District of Columbia, the strata were established independently within each State. In 16 States and the District of Columbia where sampling was not feasible due to small numbers of companies and/or small volumes of gas deliveries, all companies were selected. The 16 States were: Alaska, Connecticut, Delaware, Hawaii, Idaho, Maine, North Dakota, New Hampshire, New Jersey, Nevada, Oregon, Rhode Island, South Dakota, Utah, Vermont, and Washington.

For each of the remaining States, the total volumes of industrial sales and deliveries and of the combined residential/commercial sales and deliveries were determined. Companies with natural gas deliveries to the industrial sector or to the combined residential/commercial sector above a certain level were selected with certainty. Since a few large companies often account for most of the natural gas delivered within a State, this ensures those companies' inclusion in the sample. The formula for determining certainty was applied independently in the two consumer sectors--the industrial and the combined residential/commercial. These selected companies, together with the companies in the jurisdictions discussed where sampling was not feasible, formed the certainty stratum.

All companies with natural gas deliveries in sector j greater than the cut-off value ( $C_j$ ) were included in the certainty stratum. The formula for  $C_j$  was:

$$C_j = \frac{X_j}{2n} \quad (1)$$

where:

$C_j$  = cutoff value for consumer sector j,

$n$  = target sample size to be selected for the State, 25 percent of the companies in the State,

$X_{ij}$  = the annual volume of natural gas deliveries by company i to customers in consumer sector j,

$X_i$  = the sum within State of annual gas volumes for company i,

$X_j$  = the sum within State of annual gas volumes in consumer sector j,

$X_{..}$  = the sum within State of annual gas volumes in all consumer sectors.

**Noncertainty Stratum.** All other companies formed the noncertainty stratum. They were systematically sampled with probability proportional to size. The measure of size for each company was the total volume of gas sales to all consumer sectors ( $X_i$ ). The number of companies to be selected from the noncertainty stratum was calculated for each State, with a minimum of 2.

The formula for selecting the number of noncertainty stratum companies was:

$$m = n \frac{X_2}{X_{..}} \quad (2)$$

where:

$m$  = the sample size for the noncertainty stratum within a State,

$X_2$  = the sum within State of the  $X_i$  for all companies in the noncertainty stratum.

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using ( $I = \frac{X_2}{m}$ ). A uniform random number R was selected between zero and I. The first sampled company was

the first company on the list to have a cumulative measure of size greater than R. The second company selected was the first company on the list to have a cumulative measure of size greater than  $R + I$ .  $R + I$  was increased again by I to determine the third company to be selected. This procedure was repeated until the entire sample was drawn.

**Subgroups.** In eight States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that  $X_2$  was the sum within State of the  $X_i$  for only those companies in the subgroup.

These subgroups were defined only for the purpose of sample selection. They are:

California: companies handling only industrial gas and all other companies.

Iowa: companies handling industrial gas and companies delivering only to residential or commercial customers.

Louisiana: companies handling only industrial gas and all other companies, with the latter being further subdivided according to size. The larger group is comprised of all companies with total deliveries of at least 200 million cubic feet while the smaller group consists of companies with less than that volume of delivered gas (three subgroups).

Oklahoma: Companies delivering less than 500 million cubic feet of gas and those delivering more than that volume.

Texas: companies handling only residential/commercial gas, companies handling only industrial gas, and all other companies (three subgroups).

## Estimation Procedures

**Estimates of Volumes.** A ratio estimator is applied to the volumes reported in each State by the sampled companies to estimate the total gas sales and deliveries for the State. Ratio estimators are calculated for each consumer sector—residential, commercial, and industrial—in each State where companies are sampled.

The following annual data are taken from the most recent 1995 submissions of Form EIA-176:

The formula for calculating the ratio estimator ( $E_{vj}$ ) for the volume of gas in consumer sector  $j$  is:

$$E_{vj} = \frac{Y_j}{Y'_{.j}} \quad (3)$$

where:

$Y_j$  = the sum within State of annual gas volumes in consumer sector  $j$  for all companies,

$Y'_{.j}$  = the sum within State of annual gas volumes in consumer sector  $j$  for those companies in the sample.

The ratio estimator is applied as follows:

$$V_j = y_{.j} \times E_{vj} \quad (4)$$

where:

$V_j$  = the State estimate of monthly gas volumes in consumer sector  $j$ ,

$y_{.j}$  = the sum within State of reported monthly gas volumes in consumer sector  $j$ .

**Computation of Natural Gas Prices.** The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales.

The price of natural gas for a State within a sector is calculated as follows:

$$P_j = \frac{R_j}{V'_{.j}}$$

where:

$P_j$  = the average price for gas sales within the State in consumer sector  $j$ ,

$R_j$  = the reported revenue from natural gas sales within the State in consumer sector  $j$ ,

$V_j$  = the reported volume of natural gas sales within the State in consumer sector  $j$ .

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

The monthly average prices of natural gas are based on sales data only. Volumes of gas delivered for the ac-

count of others to these consumer sectors are not included in the State or national average prices.

Table 28 shows the percent of the total State volume that represents volumes from natural gas sales to the commercial and industrial sectors. This table may be helpful in evaluating commercial and industrial price data. Virtually all natural gas deliveries to the residential sector represent onsystem sales volumes only.

See the section on consumer price calculations in this Appendix for further price information.

**Estimation for Nonrespondents.** A volume for each consumer category is imputed for companies that fail to respond. The imputation is based on the previous month's value reported by the non-responding company and the change from the previous month to the current month in volumes reported by other companies in the State. The imputed volumes are included in the State totals. To estimate prices for non-respondents, the unit price (dollars per thousand cubic feet) reported by the company in the previous month is used.

The formula for imputing volumes of gas sales for nonrespondents was:

$$F_t = F_{t-1} \times \frac{y_{.jt}}{y_{.jt-1}} \quad (5)$$

where:

$F_t$  = imputed gas volume for current month  $t$ ,

$F_{t-1}$  = gas volume for the company for the previous month,

$y_{.jt}$  = gas volume reported by companies in the State stratum for report month  $t$ ,

$y_{.jt-1}$  = gas volume in the previous month for companies in the State stratum that reported in month  $t$ .

## Final Revisions

**Adjusting Monthly Data to Annual Data.** After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the *Natural Gas Annual*, revisions are made to monthly data. The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* to match them to the annual values appearing in the *Natural Gas Annual*. The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports according to the distribution of the estimated values across the months.

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the *Natural Gas Monthly*, are used to derive an updated estimate of monthly consumption and revenues for each State's residential, commercial, or industrial natural gas consumption.

For each State, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V_{jm}^* = V_{jm} + \left[ (V_{ja} - V'_{jm}) \left( \frac{V_{jm}}{V'_{jm}} \right) \right] \quad (6)$$

where:

$V_{jm}^*$  = the final volume estimate for month m in consumer sector j,

$V_{jm}$  = the estimated volume for month m in consumer sector j,

$V_{ja}$  = the volume for the year reported on Form EIA-176,

$V'_{jm}$  = The annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate.

The formula for revising the estimated revenue is:

$$R_{jm}^* = R_{jm} + \left[ (R_{ja} - R'_{jm}) \left( \frac{R_{jm}}{R'_{jm}} \right) \right] \quad (7)$$

where:

$R_{jm}^*$  = the final revenue estimate for month m in consumer sector j,

$R_{jm}$  = the estimated revenue for month m in consumer sector j,

$R_{ja}$  = the revenue for the year reported on Form EIA-176,

$R'_{jm}$  = The annual sum of estimated monthly revenues.

Revision of Volumes and Prices for Deliveries to Electric Utilities. Revisions to monthly electric utilities data are published throughout the year as they become available.

## Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error - nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data. See the discussion of the Form EIA-857 in Appendix B for a description of nonsampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

**Standard Errors.** A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration. Standard errors are calculated based on statistical theory that refers to all possible samples of the same size and design.

The standard errors for monthly natural gas volume estimates by State are given in Table C1. Ninety-five percent of the time, the volume that would have been obtained from a complete enumeration will lie in the range between the estimated volume minus two standard errors and the estimated volume plus two standard errors.

The standard error of the natural gas volume estimate is the square root of the variance of the estimate. The formula for calculating the variance of the volume estimate is:

$$V(\hat{Y}) = \sum_{h=1}^H \left[ N_h^2 \frac{(1 - \frac{n_h}{N_h})}{n_h(n_h - 1)} \left( \sum_{i=1}^{n_h} (y_i - T x_i)^2 \right) \right] \quad (8)$$

where:

$H$  = the total number of strata

$N_h$  = the total number of companies in stratum h

$n_h$  = the sample size in stratum h

$y_i$  = the reported monthly volume for company i

$x_i$  = the reported annual volume for company i

$T$  = the ratio of the sum of the reported monthly volumes for sample companies to the sum of the reported annual volumes for the sample companies.

**Table C-1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, August 1997**

State	Volume Million Cubic Feet				Price Dollars per Thousand Cubic Feet		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama .....	154	1,474	1,408	2,044	0.29	2.58	0.54
Alaska .....	0	0	0	0	—	—	—
Arizona .....	3	110	0	110	0.05	0.12	—
Arkansas .....	0	0	0	0	—	—	—
California .....	172	112	673	704	0.03	0.08	0.10
Colorado .....	NA	NA	NA	NA	NA	NA	NA
Connecticut .....	0	0	0	0	—	—	—
Delaware .....	0	0	0	0	—	—	—
District of Columbia .....	0	0	0	0	—	—	—
Florida .....	314	181	98	375	2.11	0.32	0.43
Georgia .....	470	1,878	690	2,055	1.92	6.05	2.41
Hawaii .....	0	0	0	0	—	—	—
Idaho .....	0	0	0	0	—	—	—
Illinois .....	430	292	7,118	7,137	0.07	0.57	0.85
Indiana .....	148	330	1,413	1,458	1.10	0.25	0.37
Iowa .....	42	32	26	59	0.33	0.07	0.08
Kansas .....	840	186	2,672	2,807	2.88	0.20	3.18
Kentucky .....	163	80	128	222	0.73	0.48	1.79
Louisiana .....	27	54	3,594	3,594	0.20	0.17	—
Maine .....	0	0	0	0	—	—	—
Maryland .....	NA	NA	NA	NA	NA	NA	NA
Massachusetts .....	325	1,933	6,072	6,380	1.23	0.13	0.80
Michigan .....	1,420	143	3,641	3,911	0.83	0.38	0.71
Minnesota .....	77	128	941	953	0.75	0.27	0.24
Mississippi .....	NA	NA	NA	NA	NA	NA	NA
Missouri .....	132	52	119	185	0.55	0.10	0.50
Montana .....	3	3	0	4	0.03	0.03	—
Nebraska .....	16	NA	73	NA	0.30	NA	0.53
Nevada .....	0	0	0	0	—	—	—
New Hampshire .....	0	0	0	0	—	—	—
New Jersey .....	0	0	0	0	—	—	—
New Mexico .....	93	159	746	768	1.14	0.84	—
New York .....	NA	NA	NA	NA	NA	NA	NA
North Carolina .....	33	17	3,333	3,333	0.11	0.02	3.73
North Dakota .....	0	0	0	0	—	—	—
Ohio .....	0	0	0	0	—	—	—
Oklahoma .....	78	2,241	1,229	2,557	0.37	6.91	0.21
Oregon .....	0	0	0	0	—	—	—
Pennsylvania .....	94	382	1,506	1,556	0.44	0.49	4.19
Rhode Island .....	0	0	0	0	—	—	—
South Carolina .....	28	120	1,639	1,644	0.56	0.23	0.03
South Dakota .....	0	0	0	0	—	—	—
Tennessee .....	124	126	2,077	2,085	0.88	0.18	0.28
Texas .....	401	2,902	6,506	7,135	0.08	0.13	0.02
Utah .....	0	0	0	0	—	—	—
Vermont .....	0	0	0	0	—	—	—
Virginia .....	273	525	3,035	3,092	1.20	0.52	0.61
Washington .....	NA	NA	NA	NA	NA	NA	NA
West Virginia .....	184	740	146	776	1.24	2.47	0.61
Wisconsin .....	NA	NA	410	NA	NA	NA	1.14
Wyoming .....	NA	NA	NA	NA	NA	NA	NA
<b>Total .....</b>	<b>2,267</b>	<b>5,052</b>	<b>14,187</b>	<b>15,229</b>	<b>0.10</b>	<b>0.16</b>	<b>0.28</b>

NA = Not Available.

— = Not Applicable.

Source: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

## Appendix D

### Natural Gas Reports and Feature Articles

#### ***Reports Dealing Principally with Natural Gas and/or Natural Gas Liquids***

- *Natural Gas Annual 1995*, DOE/EIA-0131(95), November 1996.
- *Natural Gas Annual 1993 Supplement: Company Profiles*, DOE/EIA-0131(93/S), February 1995.

#### ***Other Reports Covering Natural Gas, Natural Gas Liquids, and Other Energy Sources***

- *Monthly Energy Review*, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.
- *Short-Term Energy Outlook*, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.
- *Natural Gas 1995: Issues and Trends*, DOE/EIA-0560(95), November 1995.
- *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1995 Annual Report*, DOE/EIA-0216(95)/Advance Summary, October 1996.
- *Annual Energy Review 1995*, DOE/ EIA-0384(95), July 1996. Published annually.
- *Annual Report to Congress 1995 DOE/ EIA-01733(95)*, July 1996. Published annually.
- *Annual Energy Outlook 1996*, DOE/ EIA-0383(96), January 1996. Published annually.

#### ***Selected One-Time Natural Gas and Related Reports***

- *The Value of Underground Storage in Today's Natural Gas Industry*, DOE/EIA-0591, March 1995.
- *Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1995*, DOE/EIA-0542(95), July 1994.
- *Largest U.S. Oil and Gas Fields*, DOE/EIA-TR-0567, August 1993.
- *Energy Policy Act Transportation Rate Study*, DOE/EIA-0571, October 1993.
- *Energy Policy Act Transportation Study: Interim Report of Natural Gas Flows and Rates*, DOE/EIA-0602, October 1995.

#### ***Selected and Recurring Natural Gas and Related Data Reference Reports***

- *Directory of Energy Data Collection Forms*, DOE/EIA-0249(95), January 1996.
- *Oil and Gas Field Code Master List, 1995*, EIA-0370(95), December 1996.

## Feature Articles

### *January 1994*

#### **U.S. Coalbed Methane Production**

(Updates the Energy Information Administration's coalbed methane production information through 1992 and presents it by geologic basin and by State.)

### *February 1994*

#### **Contracting for Natural Gas Supplies**

(Addresses the contractual relationships of producers with end users and distributors for the natural gas that is shipped along the interstate pipeline systems.)

### *May 1994*

#### **Opportunities with Fuel Cells**

(Discusses the uses of fuel cells in today's market.)

#### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

### *June 1994*

#### **Natural Gas 1994: Issues and Trends - Executive Summary**

(Provides an overview of the natural gas industry in 1993 focusing on trends in production, consumption, and pricing of natural gas.)

### *August 1994*

#### **U.S. Natural Gas Imports and Exports - 1993**

(Contains final 1993 data on all U.S. imports and exports of natural gas.)

### *March 1995*

#### **The Comparability of Resource and Reserve Data for Crude Oil, Natural Gas, Coal, and Uranium**

(Clarifies which terms are equivalent among the four major energy minerals in the United States.)

### *July 1995*

#### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

### *June 1996*

#### **Natural Gas Industry Restructuring and Data Collection**

(Discusses how restructuring of the natural gas industry has impacted the natural gas data collection efforts.)

### *July 1996*

#### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

### *November 1996*

#### **U.S. Natural Gas Imports and Exports - 1995**

(Contains final 1995 data on all U.S. imports and exports of natural gas.)

### *December 1996*

#### **Crosswell Seismology -- A View from Aside**

(Discusses crosswell seismology and its geologic and economic implications for the domestic oil and gas industry.)

### *May 1997*

#### **Restructuring Energy Industries: Lessons from Natural Gas**

(Compares and contrasts the natural gas and electric power industries.)

### *July 1997*

#### **Intricate Puzzle of Oil and Gas "Reserves Growth"**

(Discusses the factors that affect ultimate recovery estimates of a field or reservoir.)

## *August 1997*

### **Natural gas Residential Pricing Developments During the 1996-97 Winter**

(Discusses key factors that affect pricing patterns, highlights the effects of weather, utilization patterns of natural gas storage, and pricing mechanisms used in natural gas markets.)

## **Special Focuses**

### *January 1997*

#### **Natural Gas Productive Capacity**

(Analyzes monthly natural gas wellhead productive capacity in the lower 48 States from 1985 and 1996 and project this capacity for 1996 and 1997.)

#### **Outlook for Natural Gas Through 2015**

(Presents an outlook for natural gas through 2015)

### *August 1997*

#### **Worldwide Natural Gas Supply and Demand And the Outlook For Global LNG Trade**

(Focuses on natural gas into the next century with emphasis on world natural gas supply and demand to 2015.)

### *September 1997*

#### **Advance Summary: U.S. Crude Oil, Natural Gas, and Natural gas Liquids Reserves, 1996 Annual Report - Advance Summary**

(Focuses on proved reserves of domestic crude oil, natural gas, and natural gas liquids.)

## **Special Reports**

### *March 1997*

#### **Natural Gas Analysis and Geographic Information Systems**

(Explores how geographic information system techniques and methodologies are being used by the Energy Information Administration.)

### *April 1997*

#### **Natural Gas Pipeline and System Expansions**

(Examines recent expansions to the North American natural gas pipeline network.)

### *July 1997*

#### **Revisions to Monthly Natural Gas Data**

(Discusses the revision errors for natural gas data.)

#### **Natural Gas 1996: Highlights**

(Reviews data for 1996 based on Energy Information Administration surveys.)

### *August 1997*

#### **U.S. Natural gas Imports and Exports - 1996**

(Contains final 1996 data on all U.S. imports and exports of natural gas.)

### *September 1997*

#### **U.S. Underground Storage of Natural Gas in 1997: Existing and Proposed**

(Examines recent and proposed expansions of underground natural gas storage capacity and deliverability in the United States as of September 1, 1997.)



## Appendix E

### Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production	1, 2, 3	Monthly: Annual:	EIA-895, "Monthly Quantity of Natural Gas Report"	Audrey E. J. Corley (202) 586-4804
		Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202) 586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Audrey E. J. Corley (202) 586-4804 Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Import and Exports"	Norman Crabtree (202) 586-6180
Price: City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-895, "Monthly Quantity and Value of Natural Gas Report"	Linda Cook (202) 586-6306
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202) 586-4790
Summary of Natural Gas Imports and Exports	5,6	Monthly:	Quarterly Natural Gas Import and and Export Sales and Price Report	Norman Crabtree (202) 586-6180
Producer Related Activities: Natural Gas Production	7,8	Monthly:	EIA-895, "Monthly Quantity of Natural Gas Report"	Audrey Corley (202) 586-4804

Underground Storage:	9, 10, 11 12, 13	Monthly:	Forms FERC-8 and EIA-191, "Underground Gas Storage Report"	Roy Kass (202) 586-4790
Distribution and Consumption:				
Deliveries to:				
Residential,	14	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Commercial,	15		Natural Gas Purchases and Deliveries	(202) 586-4790
Industrial,	16		to Consumers"	
Electric Utility,	17		Form FERC-423, "Cost and Quality	
All Consumers	18		of Fuels for Electric Power Plants"	
Average Price to:				
City Gate,	19	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Residential,	20		Natural Gas Purchases and Deliveries	(202) 586-4790
Commercial,	21		to Consumers"	
Industrial,	22		Form FERC-423, "Cost and Quality	
Electric Utility	23		of Fuels for Electric Power Plants"	
Onsystem Sales	24	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
			Natural Gas Purchases and Deliveries	(202) 586-4790
			to Consumers"	
Heating Degree Days	25	Seasonal:	National Oceanic and Atmospheric	James Keeling
			Administration	(202) 586-6107
Highlights				
				Mary Carlson
				(202) 586-4749

## Appendix F

### Natural Gas Electronic Products

In addition to printed publications, the Energy Information Administration distributes information concerning the natural gas industry in a variety of electronic formats through several media. Two main types of products are available electronically: *viewable documents* that may be read or printed; and *post-processable files* that may be directly used as input to a computer application without additional keying and checking of data.

Viewable documents represent complete or selected sections of publications including text, tables and graphs. They may be as specific as single tables or as general as an entire publication. Post-processable documents on the other hand are either macro-level representations of

information in published tables or micro-level respondent information representing responses on a specific nonconfidential survey.

The media used to distribute these electronic publications include: (1) The Energy Information Administration's Internet site (<http://www.eia.doe.gov> or <ftp://ftp.eia.doe.gov>); (2) Dial-in access through the Energy Information Administration's EPUB electronic bulletin board or through the Economic Bulletin Board of the Department of Commerce and the COGIS system; (3) The Energy Information Administration's quarterly CD-ROM(Info-Disk); (4) The Energy Information Administration's Fax on Demand System; and (5) diskettes.

	Internet	Dial-In	InfoDisk	Fax	Diskette
ANNUAL PUBLICATIONS					
Natural Gas Annual, Volume 1, 1994 Provides information on supply, and disposition of natural gas in the United States. Information is provided nationally, regionally, and by State for 1994.	V P		V P		P
Natural Gas Annual, Volume 2, 1994 Contains historical information about supply and disposition of natural gas at the national, regional, and State level as well as prices at selected points in the flow of gas from wellhead to burnertip.	P		P		P
Natural Gas 1995: Issues and Trends Addresses current issues affecting the natural gas industry and markets, and analyzes trends in the most recent natural gas data.	V		V		
Natural Gas 1994: Issues and Trends Provides an overview of the natural gas industry in 1993 and early 1994, focusing on the overall ability to deliver gas under the new regulatory mandates of the Federal Energy Regulatory Commission's Order 636.	V		V		
Oil and Gas Products List 1994-1995 Brief descriptions of the various information products prepared by the Office of Oil and Gas.	V		V		
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves Annual Report 1994 1994 national and State estimates of reserves, reserve changes, and production, plus industry highlights.	V		V		
MONTHLY PUBLICATIONS					
Natural Gas Monthly, from September 1995 forward. Entire Publication in viewable format	V		V		

V=Viewable

P=Post-Processable

	Internet	Dial-In	InfoDisk	Fax	Diskette
OTHER PUBLICATIONS					
Natural Gas 1995: Preliminary Highlights This Special Focus, which was featured in the April 1996 issue of the <i>Natural Gas Monthly</i> , presents events that affected the natural gas industry during 1995.	V	P		V	
Energy Policy Act Transportation Study: Interim Report on Natural Gas Flow and Rates (EPACT) Analysis of natural gas transportation rates and distribution patterns for the period from 1988 through 1994.	V		V		
Oil Production Capacity Expansion Cost for the Persian Gulf Quantifies the cost of expanding oil production capacity for the Persian Gulf based on geologic plays and fields rather than country-level economics. Development costs and volumes are estimated for the next 15 years.	V		V		
Costs and Indices for Domestic Oil and Gas Field Equipment and Production Operations 1990-1993 Cost of equipment and operation of oil and gas wells in the lower 48 States.	V		V		
Drilling Sideways- A Review of Horizontal Well Technology and the Domestic Application April 1993 report presenting salient aspects of current and near-future horizontal drilling and completion technology.	V		V		
International Oil and Gas Exploration and Development Compilation of country-level data and assessment of regional trends relating to upstream aspects of global oil and gas supply.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1984-1996 Analysis of monthly natural gas wellhead productive capacity.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1980-1995 Analysis of monthly natural gas wellhead productive capacity.	V		V		
Oil and Gas Field Code Master List Comprehensive listing of U.S. oil and gas field names as of November 1995.	V		V		
Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadzhikistan, and Kyrgyzstan) Reservoir level assessments of oil and gas ultimate recovery in the former Soviet Union area.	V		V		
The Value of Underground Storage in Today's Natural Gas Industry Explores the significant and changing role of storage in the industry.	V		V		
U.S. Oil and Gas Development in the Early 1990's Analyses of the growing prominence of smaller energy companies in U.S. oil and gas production	V		V		
ANNUAL DATA					
Natural Gas Supply and Disposition, by State 1994	V P	V P		V	

V=Viewable

P=Post-Processable

	Internet	Dial-In	InfoDisk	Fax	Diskette
Natural Gas Summary, United States by Year 1990-1994	V P	V P		V	
1994 Natural Gas Annual Volume 1 data Self-extracting file containing data (in comma-delimited format) that appear in the tables in Volume I of the 1994 <i>Natural Gas Annual</i> .	P		P		P
1994 Natural Gas Annual Volume 2 data Self-extracting file containing historical information (in comma-delimited format) found in the tables in Volume II of the 1994 <i>Natural Gas Annual</i> . Annual historical data at the national level are presented for 1930-1994. Annual information by State and region is presented for 1967-1994.	P		P		P
1993 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1993.	P				P
1994 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1994.	P				P
Data archive of historical reserves estimates for U.S. Crude Oil, Natural Gas, and Natural Gas Liquids. National, State, and State subregion data published in the reserves balance tables of <i>U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves</i> from 1977 forward.	P				P
MONTHLY DATA					
Natural Gas Production, United States by Month 1989-forward	P	P		V	
Natural Gas Supply and Disposition, 1989-forward	P	P		V	
Natural Gas Imports and Exports 1989-forward	P	P		V	
Natural Gas Underground Storage: United States Total by Month 1989-forward	P	P		V	
Natural Gas Prices: United States Total by Month 1989-forward	P	P		V	
Natural Gas Consumption by Sector: United States Total by Month, 1989-forward	P	P		V	
SELF-EXTRACTING COMPRESSED DATA FILE ARCHIVES					
Natural Gas Consumption and Prices, for most recent 2-3 years	P	P			
Natural Gas Consumption and Prices, for 1984-1992	P	P			
OTHER REPORTS					
Natural Gas Weekly Market Update Analysis of current price, supply and storage data along with a two week snapshot of the weather in four distinct metropolitan areas.	V			V	

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## Glossary

**Balancing Item:** Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

**Base (Cushion) Gas:** The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

**British Thermal Unit (Btu):** The heat required to raise the temperature of one pound of water by one degree Fahrenheit at or near 39.2 degrees Fahrenheit.

**City-gate:** A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

**Commercial Consumption:** Gas used by nonmanufacturing organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

**Depletion:** The loss in service value incurred in connection with the exhaustion of the natural gas reserves in the course of service.

**Depreciation:** The loss in service value not restored by current maintenance, incurred in connection with the consumption or respective retirement of a gas plant in the course of service from causes that are known to be in current operation and against which the utility is not protected by insurance; for example, wear and tear, decay, obsolescence, changes in demand and requirements of public authorities, and the exhaustion of natural resources.

**Dry Natural Gas Production:** Marketed production less extraction loss.

**Electric Utility Consumption:** Gas used as fuel in electric utility plants.

**Exports:** Natural gas deliveries out of the continental United States and Alaska to foreign countries.

**Extraction Loss:** The reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

**Flared:** The volume of gas burned in flares on the base site or at gas processing plants.

**Gross Withdrawals:** Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

**Imports:** Natural gas received in the Continental United States (including Alaska) from a foreign country.

**Independent Producers:** Any person who is engaged in the production or gathering of natural gas and who sells natural gas in interstate commerce for resale but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

**Industrial Consumption:** Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

**Interstate Companies:** Natural gas pipeline companies subject to FERC jurisdiction.

**Intransit Deliveries:** Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

**Intransit Receipts:** Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

**Intrastate Companies:** Companies not subject to FERC jurisdiction.

**Lease and Plant Fuel:** Natural gas used in well, field, lease operations and as fuel in natural gas processing plants.

**Liquefied Natural Gas (LNG):** Natural gas that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

**Marketed Production:** Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations. See Explanatory Note 1 for discussion of coverage of data concerning nonhydrocarbon gases removed.

**Native Gas:** Gas in place at the time that a reservoir was converted to use as an underground storage reservoir as in contrast to injected gas volumes.

**Natural Gas:** A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or solution with oil in natural underground reservoirs at reservoir conditions.

**Nonhydrocarbon Gases:** Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

**Onsystem Sales:** Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

**Pipeline Fuel:** Gas consumed in the operation of pipelines, primarily in compressors.

**Repressuring:** The injection of gas into oil or gas formations to effect greater ultimate recovery.

**Residential Consumption:** Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

**Storage Additions:** The volume of gas injected or otherwise added to underground natural gas or liquefied natural gas storage during the applicable reporting period.

**Storage Withdrawals:** Total volume of gas withdrawn from underground storage or liquefied natural gas storage during the applicable reporting period.

**Supplemental Gaseous Fuels Supplies:** Synthetic natural gas, propane-air, refinery gas, biomass gas, air injected for stabilization of heating content, and manufactured gas commingled and distributed with natural gas.

**Synthetic Natural Gas (SNG):** A manufactured product chemically similar in most respects to natural gas, that results from the conversion or reforming of petroleum hydrocarbons and may easily be substituted for or interchanged with pipeline quality natural gas.

**Therm:** One-hundred thousand British thermal units.

**Underground Gas Storage Reservoir Capacity:** Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

**Vented Gas:** Gas released into the air on the base site or at processing plants.

**Wellhead Price:** Represents the wellhead sales price, including charges for natural gas plant liquids subsequently removed from the gas, gathering and compression charges, and State production, severance, and/or similar charges.

**Working (Top Storage) Gas:** The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.